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MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION (Autonomous)

(ISO/IEC - 27001 - 2005 Certified)

SUMMER – 2022 EXAMINATION MODEL ANSWER

Subject: Java Programming

Subject Code:

22412

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for anyequivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.
- 8) As per the policy decision of Maharashtra State Government, teaching in English/Marathi and Bilingual (English + Marathi) medium is introduced at first year of AICTE diploma Programme from academic year 2021-2022. Hence if the students in first year (first and second semesters) write answers in Marathi or bilingual language (English +Marathi), the Examiner shall consider the same and assess the answer based on matching of concepts with model answer.

Q.	Sub	Answer		Marking
No	Q.N.			Scheme
1.		Attempt any <u>FIVE</u> of the following:		10
	a)	Enlist the logical operators in Java.		2M
	Ans.	&& : Logical AND		1M each
		: Logical OR		Any two
		! : Logical NOT		operators
	b)	Give the syntax and example for the fol	2M	
		i) min ()	_	
		ii) Sqrt ()		
	Ans.	i) min()		
		Syntax: (Any one of the following)		1M for
		static int min(int x, int y) Re	each	
		static long min(long x, long y) Re	function	
		static float min(float x, float y) Re	with	
		static double min(double x, int y) Re	eturns minimum of x and y	example



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	Example:	
	int y= Math.min(64,45);	
	ii)Sqrt()	
	Syntax:	
	static double sqrt(double arg) Returns square root of arg.	
	Example:	
	double y= Math.sqrt(64);	
c)	Define the interface in Java.	2M
Ans.	Interface is similar to a class.	
	It consist of only abstract methods and final variables.	1M for
	To implement an interface a class must define each of the method	each point,
	declared in the interface.	Any two
	It is used to achieve fully abstraction and multiple inheritance in	points
	Java.	
d)	Enlist any four inbuilt packages in Java.	2M
Ans.	1.java.lang	1/2 M for
	2.java.util	each
	3.java.io	package
	4.java.awt	Any four
	5.java.net	packages
	6.java.applet	
e)	Explain any two methods of File Class	2M
Ans.	1. boolean createNewFile(): It creates a new, empty file named by	1M for
	this abstract pathname automatically, if and only if no file with the	each
	same name exists.	method
	if(file.createNewFile())	Any two
	System.out.println("A new file is successfully created.");	methods
	2. String getName(): It returns the name of the file or directory	
	denoted by the object's abstract pathname.	
	System.out.println("File name : " + file.getName());	
	3. String getParent(): It returns the parent's pathname string of the	
	object's abstract pathname or null if the pathname does not name a	
	parent directory.	
	System.out.println("Parent name : " + file.getParent());	



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	4. boolean isFile(): It returns True if the file denoted by the abstract pathname is a normal file, and False if it is not a normal file. System.out.println("File size (bytes) : " + file.isFile());		
	5. boolean canRead(): It returns True if the application can read the file denoted by the abstract pathname, and returns False otherwise. System.out.println("Is file readable : " + file.canRead());		
	6. boolean canWrite(): It returns True if the application can modify the file denoted by the abstract pathname, and returns False otherwise.System.out.println("Is file writeable : " + file.canWrite());		
	 7. boolean canExecute(): It returns True if the application can execute the file denoted by the abstract pathname, and returns False otherwise. System.out.println("Is file executable : " + file.canExecute()); 		
		23.4	
f) Ans.	Write syntax of elipse. Syntax: void fillOval(int top, int left, int width, int height) The filled ellipse is drawn within a bounding rectangle whose upper- left corner is specified by top and left and whose width and height are specified by width and height	2M 2M for correc syntax	et and the second se
	OR Syntax: void drawOval(int top, int left, int width, int height) The empty ellipse is drawn within a bounding rectangle whose upper- left corner is specified by top and left and whose width and height are specified by width and height		
g) Ans.	Enlist any four compile time errors. 1)Missing semicolon 2)Missing of brackets in classes and methods 3)Misspelling of variables and keywords	2M ^{1/2} M fo each err	
	 3)Misspelling of variables and keywords. 4)Missing double quotes in Strings. 5)Use of undeclared variable. 6)Incompatible type of assignment/initialization. 7)Bad reference to object. 	Any foi can be consider	e



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Subject:	Java Programming Subject Co	ode:	22412	
	Attempt any <u>THREE</u> of the following: Explain any four features of Java			12 4M
A	1.Object Oriented:In Java, everything is an Object. Java can be easily extended is based on the Object model.	l sinc		M for each eature
	2.Platform Independent: Unlike many other programming languages including C at when Java is compiled, it is not compiled into platform machine, rather into platform independent byte code. This b is distributed over the web and interpreted by the Virtual 1 (JVM) on whichever platform it is being run on.	speci yte co	$\begin{array}{c c} & A \\ A \\ fe \\ fi \\ fi \\ fo \\ fe \\ fe \\ fe \\ fe \\ fe \\ fe \\ fe$	iy four atures
	3.Simple: Java is designed to be easy to learn. If you understand the concept of OOP Java, it would be easy to master.	he ba	sic	
	4.Secure: With Java's secure feature it enables to develop virus-free, free systems. Authentication techniques are based on puencryption.	-		
	5.Architecture-neutral: Java compiler generates an architecture-neutral object file which makes the compiled code executable on many processe the presence of Java runtime system.			
	6.Multithreaded: With Java's multithreaded feature it is possible to write progr can perform many tasks simultaneously. This design featur the developers to construct interactive applications that smoothly.	e allo	ows	
	7.Interpreted: Java byte code is translated on the fly to machine instructions and is not stored anywhere. The devery process is more rapid and analytical since the linking incremental and light-weight process.	lopm	ent an	
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b) Ans.	<pre>import class fi { public { FileRea FileWr int ch; try { while(({ fo.write }</pre>	java.io.*; lecopy static void main(String arg ader fr= new FileReader(" iter fo= new FileWriter("f (ch=fr.read())!= -1) e(ch); n.out.println("file copied su e(); e(); e(); null)	file1.txt"); ile2.txt");	ner. 4M 2 <i>M</i> for correct logic, 2 <i>M</i> for code
c)	Write points		n vectors and arrays. (any f	our 4M
Ans.	S.No	Array	Vector	1M for
	1	An array is a structure that holds multiple	The Vector is similar to array he multiple objects and like an arr	
		values of the same	it contains components that can	
		type.	accessed using an integer index.	points
	2	An array is a	Vectors are heterogeneous.	
		homogeneous data type	can have objects of different of two singles a Vector	lata
		where it can hold only objects of one data type	types inside a Vector.	
	1	objects of one data type		



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	3 4 5 6	After creation, an array is a fixed-length structure Array can store primitive type data element. Declaration of an array int arr[] = new int [10]; Array is the static memory allocation.	The size of a Vector can grow or shrink as needed to accommodate adding and removing items after the Vector has been created Vector are store non primitive type data element. Declaration of Vector: Vector list = new Vector(3) Vector is the dynamic memory allocation	
 d) Explain exception handling mechanism w.r.t. try, catch, throw and finally. Ans. try: Program statements that you want to monitor for exceptions are contained within a try block. If an exception occurs within the try block, it is thrown. Syntax: try {			4M IM for each	
	// excep }	tion handler for Exception	Type1	



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		<pre>throw: It is mainly used to throw an instance of user defined exception. Example: throw new myException("Invalid number"); assuming myException as a user defined exception finally: finally block is a block that is used to execute important code such as closing connection, stream etc. Java finally block is always executed whether exception is handled or not. Java finally block follows try or catch block. Syntax: finally { // block of code to be executed before try block ends }</pre>	
3.		Attempt any <u>THREE</u> of the following:	12
	a)	Write a Java Program to find out the even numbers from 1 to 100 using for loop.	4M
	Ans.	class test	
		{	2M for
		<pre>public static void main(String args[]) {</pre>	Program logic
		System.out.println("Even numbers from 1 to 100 :");	C
		for(int i=1;i<=100; i++)	2M for program
		i if(i% 2==0)	syntax
		System.out.print(i+" ");	-
		}	
	b)	Explain any four visibility controls in Java.	4 M
	Ans.	Four visibility control specifiers in Java are public, default, private and protected. The visibility control in java can be seen when concept	3M for
		of package is used with the java application.	Explanatio
		1) private :The access level of a private specifier is only within the class. It cannot be accessed from outside the class.	n
		class. It cannot be accessed from outside the class.default :When no specifier is used in the declaration, it is called as	
		default specification. Default scope for anything declared in java	



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	 is implicit publit the same package 3) protected :The apackage and out 4) public :The accerbe accessed from the package and out 5) private protected access and private regardless of where the packages in matrix as: 	e. access le side the ss level om with outside t l access at packa becifiers	evel of a pr package the of a public in the cla the package The visib ss. The fiel- age they are can be ma	rotected sp rough deri specifier i ss, outsid ility level ds are visi in. apped with	becifier is v ved class. Is everywhe e the clas is between ble in all s h four cate	vithin the ere. It can s, within protected ubclasses egories in	1M for access specificatio n table
	matrix as: Access Modifier	Public	Protected	Friendly (default)	Private protected	private	
	Access Location Same Class	Yes	Yes	Yes	Yes	Yes	
	Sub class in same package	Yes	Yes	Yes	Yes	No	
	Other classes in same package	Yes	Yes	Yes	No	No	
	Sub class in other packages	Yes	Yes	No	Yes	No	
	Non sub classes in other packages	Yes	No	No	No	No	
c) Ans.	Explain single and Single level inherita In single inheritance superclass. Class A extends Class B Example :	nce:				umple.	4M 1M for each explanatio n 1M for each example
	class A {						Page 8 / 26

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22412 Subject Code: Subject: Java Programming void display() System.out.println("In Parent class A"); } class B extends A //derived class B from A void show() System.out.println("In child class B"); public static void main(String args[]) { B b= new B(); b.display(); //super class method call b.show(); // sub class method call } Note : any other relevant example can be considered. **Multilevel inheritance:** In multilevel inheritance, a subclass extends from a superclass and then the same subclass acts as a superclass for another class. Basically it appears as derived from a derived class. **Class** A extends **Class B** extends **Class** C Example: class A { void display()



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22412 Subject Code: Subject: Java Programming System.out.println("In Parent class A"); } } class B extends A //derived class B from A { void show() System.out.println("In child class B"); } } class C extends B //derived class C from B public void print() System.out.println("In derived from derived class C"); public static void main(String args[]) C c = new C();c.display(); //super class method call c.show(); // sub class method call c.print(); //sub-sub class method call } } Note : any other relevant example can be considered. Write a java applet to display the following output in Red color. d) **4M** Refer Fig. No. 1. Fig No. 1. import java.awt.*; 2M for Ans. import java.applet.*; correct

public class myapplet extends Applet

logic



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int x[]={10,200,70}; int y[]={10,10,100}; g.setColor(Color.red); g.drawPolygon(x,y,3); } /* <applet code="myapplet" height="400" width="400"> </applet> */	syntax
4. Attempt any <u>THREE</u> of the following:	
a) Explain switch case and conditional operator is suitable example.	n java with 4M
Ans. switchcase statement:	
The switchcase statement allows us to execute a bloc	
among many alternatives.	1M for
Syntax :	explanatio
switch (expression)	n switch case
case value1:	statement
// code	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
break;	1M for
case value2:	example
// code	
break;	
default:	
// default statements	
}	
The expression is evaluated once and compared with	the values of
each case.	
If expression matches with value1, the code of ca	se value1 are
executed. Similarly, the code of case value2 is executed matches with value2.	



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break is a required statement, which is used to block, if any case is true. Otherwise even af break is not given, it will go for the next case. If there is no match, the code of the default cas	ter executing a case	
Example : // Java Program to print day of week // using the switchcase statement class test1 { public static void main(String[] args) { int number = 1;		
String day; switch (number) { case 1: day = "Monday"; break;		
case 2: day= "Tuesday"; break; case 3: day = "Wednesday"; break;		
case 4: day= "Thursday"; break; case 5: day = "Friday";		
break; case 6: day= "Saturday"; break; case 7: day = "Sunday";		
break; default: day= "Invalid day"; }		



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		<pre>System.out.println(day); } Note : any other relevant example can be considered Conditional Operator: The Conditional Operator is used to select one of two evaluation, which is based on the value of the first op to handling simple situations in a line. Syntax: expression1 ? expression2:expression3; The above syntax means that if the value given in Ex then Expression2 will be evaluated; otherwise, expres evaluated. Example class test { public static void main(String[] args) { String result; int a = 6, b = 12; result = (a==b ? "equal":"Not equal"); System.out.println("Both are "+result); } Note : any other relevant example can be considered </pre>	o expressions berands. It is u pression1 is to ssion3 will be	sed rue,	expla I Cond I ope IM	for inatio n itiona rator for nple
	b) Ans.	Draw and explain life cycle of thread. Life cycle of thread includes following states : 1.Newborn 2. Runnable 3. Running 4. Blocked 5. Dead			4	Μ



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c)	 New – A new thread begins its life cycle in the new state. It is also referred to as a born thread. This is the state where a thread has been created, but it has not yet been started. A thread is started by calling its start() method. Runnable – The thread is in the runnable state after the invocation of the start() method. Running thread. It is in the Ready-to-run state by calling the start method and waiting for its turn. Running – When the thread starts executing, then the state is changed to a "running" state. The method invoked is run (). Blocked–This is the state when the thread is still alive but is currently not eligible to run. This state can be implemented by methods such as suspend()-resume(), wait()-notify() and sleep(time in ms). Dead – This is the state when the thread is terminated. The thread is in a running state and as soon as it is completed processing it is in a "dead state". Once a thread is in this state, the thread cannot even run again. Write a java program to sort an 1-d array in ascending order 	2M for diagram 2M for explanatio n
Ans.	using bubble-sort. public class BubbleSort	2M for
	{ public static void main(String[] args)	correct logic



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	<pre>{ int arr[] ={3,60,35,2,45,320,5}; System.out.println("Array Before Bubble Sort"); for(int i=0; i<arr.length; i++)<="" th=""><th>2M for correct syntax</th></arr.length;></pre>	2M for correct syntax
d) Ans.	Explain how to create a package and how to import it To create package following steps can be taken:	4 M
	 Start the code by keyword 'package' followed by package name. Example : package mypackage; Complete the code with all required classes inside the package with appropriate access modifiers. Compile the code with 'javac' to get .class file. 	3M for steps to create



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	 Example: javac myclass.java to get myc 4) Create a folder which is same as packa that class file of package is present inside this folder. To import the package inside any other progression of the most statement to include pack It can be used with '*' to gain full access to a or just by giving class name if just one class a Example : import mypackage.myclass; or 	e name and make s e it. If not, copy it ins am : kage in your program. all classes within pack	side <i>im</i>	I to port
e)	importmypackage.*; Explain		4	Μ
Ans.	 i) drawLine ii) drawOval iii) drawRect iv) drawArc i) drawLine(): It is a method from Graphics c line between the points(x1, y1) and (x2, y2). Syntax : drawLine(int x1, int y1, int x2, int y2) 	class and is used to dra		for uch
	 ii) drawOval():Its is a method from Graphics draw oval or ellipse and circle. Syntax : drawOval(int x, ,int y, int width, int height) It is used to draw oval with the specifiedwidt and height are given equal, then it draws circliii) drawRect():It is a method from Graphics (rectangle with the specified widthand height. Syntax : drawRect(int x, int y, int width, int height) iv) drawArc():It is a method from Graphics c a circular or elliptical arc. Syntax : drawArc(int x, int y, int width, int height, integration into the specified width width, int height, into the specified width into the specified width width into the specified width width, into the specified width width width, into the specified width wid	h and height. If width le otherwise oval/ellip class and it draws a class and is used to dra	ose.	



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		where first fourare x, y, width and height as in case of oval or rect. The next two are start angle and sweep angle.When sweep angle is positive, it moves in anticlockwise direction. It is given as negative, moves in clockwise direction.	It	
5.	a)	Attempt any <u>TWO</u> of the following: How to create user defined package in Java. Explain with a	n 12 6M	
	Ans.	 suitable example. A java package is a group of similar types of classes, interfaces ar sub-packages It also provides access protection and removes name collisions. 	d 3M Packa creatio	ge
		Creation of user defined package: To create a package a physical folder by the name should be created in the computer. Example: we have to create a package myPack, so we create a fold d:\myPack The java program is to be written and saved in the folder myPack. The add a program to the package, the first line in the java program should be package <name>; followed by imports and the program logic.</name>	er (Note Code snippet be used	e can for
		package myPack; import java.util; public class Myclass { //code }		
		Access user defined package: To access a user defined package, we need to import the package in our program. Once we have done the import we can create the objec of the class from the package and thus through the object we can access the instance methods. import mypack.*; public class MyClassExample{ public static void main(String a[]) { Myclass c= new Myclass();	3M fo Exam	



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	<pre> } Example: package package1; public class Box { int l= 5; int b = 7; int h = 8; public void display() { System.out.println("Volume is:"+(l*b*h)); } } Source file: import package1.Box; class volume { public static void main(String args[]) { Box b=new Box(); b.display(); } </pre>	(Note Any other similar example can be considered)
b)	Write a Java program in which thread A will display the even numbers between 1 to 50 and thread B will display the odd numbers between 1 to 50. After 3 iterations thread A should go to sleep for 500ms.	6M
Ans.	Import java.lang.*; class A extends Thread {	3M Correct program with syntax



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$\left\{\begin{array}{c c c} & System.out.println("\t if(i == 6) // for 3^{rd} iters sleep(500); \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $	ation thread interrupted"); B thread :"+i); ntln("B thread interrupted");	3M Corre logi	ect



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	c)	What is constructor? List types of constructor. Explain parameterized constructor with suitable example.	6M
	Ans.	 Constructor: A constructor is a special member which initializes an object immediately upon creation. It has the same name as class name in which it resides and it is syntactically similar to any method. When a constructor is not defined, java executes a default constructor which initializes all numeric members to zero and other types to null or spaces. Once defined, constructor is automatically called immediately after the object is created before new operator completes. Types of constructors: 	2M for Definition
		 Default constructor Parameterized constructor Copy constructor Constructor with no arguments or No-Arg Constructor or Non-Parameterized constructor. 	1M List types (Any 3)
		Parameterized constructor: When constructor method is defined with parameters inside it, different value sets can be provided to different constructor with the same name.	
		Example class Student { int roll_no; String name; Student(int r, String n) // parameterized constructor { roll_no = r; name=n;	1M parameteri zed constructor
		name=n; } void display()	2M Example
		<pre>{ System.out.println("Roll no is: "+roll_no); System.out.println("Name is : "+name); }</pre>	(Any Other Example Can be

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		public static void main(String a[])	considered
		Student s = new Student(20,"ABC"); // constructor	
		with parameters	
		s.display();	
		}	
		}	
6.		Attempt any <u>TWO</u> of the following:	12
	a)	Write a Java Program to count the number of words from a text	6M
		file using stream classes.	(Note :
	Ans.	import java.io.*;	Any other
		public class FileWordCount {	relevant
		public static void main(String are[]) throws IOException	logic shall
		{	be
		File f1 = new File("input.txt");	considered
		int wc=0;)
		FileReader $fr = new$ FileReader (f1);	
		int c=0;	
		try { while(c!=-1)	<i>3M</i>
		{	Correct
		c=fr.read();	program
		if(c==(char)' ')	with syntax
		wc++;	
		}	
		System.out.println("Number of words :"+(wc+1));	<i>3M</i>
		} 	Correct
		finally	logic
			0
		if(fr!=null)	
		fr.close();	
	b)	Explain the difference between string class and string buffer	6M
	0)	class.	UIVI
		Explain any four methods of string class	
		Lapani any roar methods of sering cluss	
1	1		1



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Ans.	Sr. No.	String	StringBuffer	1M each Any 2			
	1	String is a major class	StringBuffer is a peer class of String	points			
	2	Length is fixed	Length is flexible				
	3	Contents of object cannot be modified	Contents of object can be modified				
	4	Object can be created by assigning String constants enclosed in double quotes.	Objects can be created by calling constructor of StringBuffer class using new operator.				
	5	String s="MSBTE"	StringBuffer s=new StringBuffer ("MSBTE")				
	Meth	ods of string class		1M each Any 4			
	1)toL	owercase ():		Methods			
	Conve	Converts all of the characters in this String to lower case.					
	Synta	Syntax: s1.toLowerCase()					
	Exam	Example: String s="Sachin"; n					
	System	System.out.println(s.toLowerCase());					
	Outpu	ıt: sachin					
	2) to	Uppercase():					
	-	erts all of the characters in this s	String to upper case				
		x: s1.toUpperCase()	0 11				
	·	ple: String s="Sachin";					
		m.out.println(s.toUpperCase());					
	•	it: SACHIN					
	3)trin						
	Retu	rns a copy of the string, with	leading and trailing whitespace				
	omitte	10 0					
	Svnta	x: s1.trim()					
	v	ple: String s=" Sachin ";					
		m.out.println(s.trim());					



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Output:Sachin
4)replace ():Returns a new string resulting from replacing all
occurrences of old Char in this string with new Char.
Syntax: s1.replace('x','y')
Example: String s1="Java is a programming language. Java is a
platform.";
String s2=s1.replace("Java","Kava"); //replaces all occurrences of
"Java" to "Kava" System.out.println(s2);
Output: Kava is a programming language. Kava is a platform
5. length():
Syntax: int length()
It is used to return length of given string in integer.
Eg. String str="INDIA"
System.out.println(str.length()); // Returns 5
6. charAt():
Syntax: char charAt(int position)
The charAt() will obtain a character from specified position .
Eg. String s="INDIA"
System.out.println(s.charAt(2)); // returns D
7. substring():
Syntax:
String substring (int startindex)
startindex specifies the index at which the substring will begin. It will
returns a copy of the substring that begins at startindex and runs to the
end of the invoking string
Example:
System.out.println(("Welcome".substring(3)); //come
(OR)
String substring(int startindex,int endindex)
Here startindex specifies the beginning index, and endindex specifies
the stopping point. The string returned all the characters from the



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Subject: Java	a Programming			St	ubject Code:	22412	
	beginning index <i>Example :</i> System.out.prin 8. compareTo() Syntax: int con anotherString) There are two v String to anothe	tln(("Welco): npareTo(O ariants of ther Object an	ome".substrii)bject o) or i his method. F	ng(3,5));//co i nt compare ? First method o	To(String compares this		
	lexicographicall Example. String String str2 = "St String str3 = "In int result = str1. System.out.prin result = str2.con System.out.prin	g str1 = "Str trings are in tegers are in compareTo tln(result); mpareTo(s	mmutable"; not immutable (str2);				
c)	Write a Java a	and the second second second		T		es. 6	Μ
	Year Turnover (Rs. crores)	2011 110	2012 120	2013 170 .	2014 160		
Ans.	import java.awt import java.app /* <applet code<br=""><param name="c<br"/><param name="c<br"/><param name="c<br"/><param name="c<br"/><param name="c<br"/><param name="c<br"/><param name="c<br"/><param name="c<br"/><param name="c</td"/><td>let.*; =BarChart c1 value=11 c2 value=12 c3 value=17 c4 value=16 abel1 value abel2 value</td><td>10> 20> 70> 50> e=2011> e=2012></td><td>eight=400></td><td></td><td></td><td>l for let tag</td></applet>	let.*; =BarChart c1 value=11 c2 value=12 c3 value=17 c4 value=16 abel1 value abel2 value	10> 20> 70> 50> e=2011> e=2012>	eight=400>			l for let tag
	<pre> <pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>					1	

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Subject: Java Programming	Subject Code:	22412	
<pre><pre><pre><pre><pre><pre>columns value=2014></pre><pre><pre><pre><pre><pre><pre><pre><</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>		Synt	ax
<pre>public class BarChart extends Applet { int n=0; String label[]; int value[]; public void init() {</pre>		2M Corr Log	ect
setBackground(Color.yellow); try {			
<pre>int n = Integer.parseInt(getParameter("C label = new String[n]; value = new int[n]; label[0] = getParameter("label1"); label[1] = getParameter("label2"); label[2] = getParameter("label3"); label[3] = getParameter("label4"); value[0] = Integer.parseInt(getParamet value[1] = Integer.parseInt(getParamet value[2] = Integer.parseInt(getParamet value[3] = Integer.parseInt(getParamet value[3] = Integer.parseInt(getParamet value[3] = Integer.parseInt(getParamet value[3] = Integer.parseInt(getParamet sulue[3] = Integer.parseInt(getParamet value[3] = Integer.parseInt(getParamet) = Integer.parseInt(get</pre>	ter("c1")); ter("c2")); ter("c3"));		
g.setColor(Color.red); g.fillRect(50,i*50+10,value[i],40); }			



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		} }			