1. Boolean eq. using basic gates & simplification

2. K-map
3. SOP & POS example & minterm & maxterm, sop to pos & pos to sop conversion
4. Number system conversion
5. T flip flop
6. SR flip-flop
7. JK flip-flop
8. universal gate, derive basic gates using NAND / NOR
9. 2'compliment subtraction
10. logic gates with their types
11. D flip flop
12. Half adder
13. Compare sequential logic circuit and combinational logic circuit
14. Full adder
15. De-Morgan's law
16. compare TTL and CMOS logic families
17. Necessity of MUX
18. Explain Addressing Mode of 8086 and its types.
19. Explain Assembler, debugger and linker.
20. Explain Algorithm and flowchart .
21. Explain Logical ,rotation and shifting Instructions Set of 8086.
22. Explain Strings Instructions Set of 8086.
23. Explain STC, ROR, DAA and LEA instruction set of 8086
24. Explain Architecture Of 8086 microprocessor.
25. Draw 40 Pin diagram Of 8086 microprocessors and explain all pin.
26. What is flag and it's types.
27. Explain ALU in details.
28. Explain two main function unit of 8086.
29. Explain Minimum mode with example.
30. Explain Maximum mode with example.

31. What is a physical address and how we can calculate physical address explain with example.

VIMP PROGRAMS

1. Write ALP to check number is even or odd.
2. Write ALP to find 1s compliment of given number.
3. Write ALP to Perform 2 8 - bit BCD Addition
4. Write ALP to find smallest value in given array.
5. Write ALP to find length of given string.
6. Write ALP to find sum of digit.
7. Write ALP to find Factorial of given number.
8. Write ALP to transfer a block to one array to another array.