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1. Boolean eq. using basic gates & simplification

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- 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.

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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 28 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.

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