***LOOPS***

1. Write a program to print all natural numbers from 1 to 50.
2. Write a program to print all natural numbers in reverse from 50 to 1.
3. Write a program to print all alphabets from a to z.
4. Write a program to print all alphabets from A to Z.
5. Write a program to print all even numbers between 1 to 50.
6. Write a program to print all odd number between 1 to 50.
7. Write a program to print all even number between range. Take range from user.
8. Write a program to print all odd number between range. Take range from user.
9. Write a program to find sum of all natural numbers between 1 to 20.
10. Write a program to find sum of all even numbers between 1 to 20.
11. Write a program to find sum of all odd numbers between 1 to 20.
12. Write a program to print multiplication table of number entered by user. The table should get displayed in the following form:
    1. 29 \* 1 = 29
    2. 29 \* 2 = 58
    3. ….
13. Write a program to calculate overtime pay of 10 employees. Overtime is paid at the rate of Rs.120.00 per hour for every hour worked above 40 hours. Assume that employees do not work for fractional part of an hour.
14. Two numbers are entered through the keyboard. Write a program to find the value of one number raised to the power of another.
15. Write a program to enter numbers till the user wants. At the end it should display the count of positive, negative and zeros entered.
16. Write a program for a matchstick game being played between the computer and a user. Your program should ensure that the computer always wins. Rules for the game are as follows:
    * + There are 21 matchsticks.
      + The computer asks the player to pick 1, 2, 3, or 4 matchsticks.
      + After the person picks, the customer does its picking.
      + Whoever is forced to pick up the last matchstick loses the game.
17. Write a program to find the range of a set of numbers entered through the keyboard. Range is the difference between the smallest and biggest number in the list.
18. Write a program to print 24 hours of day with suitable suffixes like AM, PM, Noon and Midnight.
19. Population of a town today is 100000. The population has increased steadily at the rate of 10% per year for last 10 years. Write a program to determine the population at the end of each year in the last decade.
20. When interest compounds q times per year at an annual rate of r % for n years, the principal p compounds to an amount a as per the following formula:
    1. a=p(1+r/q )^nq . Write a program to read 10 sets of p, r, n & q and calculate the corresponding a’s.
21. Write a program to find factors of a number.
22. Find LCM and GCD of two numbers.
23. Write program to find factorial of any number.
24. Write a program to check whether number is Prime Number or not.
25. Write a program to generate all Prime Numbers from 1 to 200.
26. Write a program to print Prime Numbers between range. Take range from user.
27. Write a program to find sum of digits of a number.
28. Write a program to check whether number is Armstrong Number or not
29. Write a program to print Armstrong Numbers between range. Take range from user.
30. Write a program to print number in reverse order.
31. Write a program to check whether a number is palindrome or not.
32. Write a program to count number of digits in a number.
33. Write a program to print Fibonacci Series. Take range from user.
34. Write a program to check whether a number is Ramanujan Number or not.
35. Write a program to generate Ramanujan Numbers upto reasonable limit. Take limit from user.
36. According to a study, the approximate level of intelligence of a person can be calculated using the following formula: i=2+(y+0.5x) Write a program that will produce a table of values of i, y and x, where y varies from 1 to 6, and, for each value of y, x varies from 5.5 to 12.5 in steps of 0.5.
37. Write a program to generate all possible combinations of digits 1, 2 and 3.
38. Write a program print Pythagorean Triplets with side length as input given by user (Avoid repetition).