1. Write a program that inputs a decimal number and converts it to binary digits.
2. Write a function that converts binary to decimal.
3. Write a program that counts the number of zeros,odd,and even numbers.
4. Write a function that print a triangle of stars.
5. Write a program that enters an number from the user and displays Fibonacci numbers from 1 to given number using function.
6. Write a program that accepts two integers.create a function that tells wheather or not the first integer is a multiple of the second.
7. Write a program that inputs two numbers in main function and passes them to a function. The function displays first number raised to the power of second number. For example, if the user enters 2 and 4 ,it displays 16.
8. Write a program that uses a function EQ () to find wheather four integers a,b,c,d passed to the function satisfy the equation( a\*a\*a)+(b\*b\*b)+(c\*c\*c)=(d\*d\*d) or not. The function returns 0 if the above equation is satisfied and returns -1 otherwise.
9. Write a program that prompts the uservto enter a number and reverse it. Write a function Reverse () to reverse the number. For example, if the user enters 2765 the function should reverse it so that it becomes 5672. The function should accept the number as an input parameter and return the reverse number.
10. Write a program that inputs a number in main () function and passes it to a function. The function displays wheather number is prime or not.
11. Write a function LCM () that recieves two integers arguments and returns LCM.
12. Write a function that returns the smallest of three floating point numbers.
13. Write a program that inputs five numbers and passes them to a function one at a time. The function returns **true** if the integer is even and false otherwise.
14. Write a function that accept a salary and return the tax according to following rules:
    1. No tax for first Rs.1000
    2. 5%for second Rs.1000
    3. 4%for third Rs.1000
    4. 3% for remaining untaxed salary
    5. For example, if the salary is 4000, then the tax is Rs.1220.
15. Write a program that calculate greatest common divisor (gcd) of two numbers using recursive function.
16. Write a program that caalculates Fibonacci series of a number using the recursive function.
17. Write a program that calculates and displays the sum of following series usin function
18. X-(x^2)/2!+x^3/3!-x^4/4!...+(x^16/16!
19. Write a function AVG whuIch calculates and display average of a player call this function in main function a program input the runs given and balls delivered in main function. The average may be caalculate by the formula
    1. Average =(total run gives×60)/(total numbers of balls delivered)
20. Write a program inputs an integer and passes it to a function. The function should return the number of digits in integer .for example if the integer is 35 the function should return 2. If it is 3572 the function should return 4.
21. Write a program that inputs 5 integers in a one dimentional array and passes the array to the function . The function finds the maximum value in the array and returns to the main function where it is displayed .
22. Write a program that get two numbers one should be passed by value and other should be passed by the reference and then check the original variable wheather thier values been chaanged or not .
23. Write a program that inputs positive integers and passes it to a function that displays the prime factors of these number. For example prime factor of 24 are 2 .,2,2,3 and prime prome ffactor of 35 are 5 and 7.
24. Write a function that takes two times as two integers arguments of hours and muInutes. It returns the number of minutes between two times.
25. Write a program to use two functions large and sum. The large() function gets two integer arguments by reference and sets the large number to its square. The sum () function gets an integer arguments by value and returns the sum of the individual digit of the number .The main function inputs two integers from user and prints the sum of individual digits and square of larger number.
26. Write a program that inputs five integers in one dimensional array and passes the array to a function. The function finds the minimum value in the array and returns to main function where it is displayed.
27. Write a program that inputs the names and population of two cites in structure variable and passes them to a function. The function displays the record of the cities that has less population.
28. Write a program that inputs a float array have 10 elements . The program uses reverse function to reverse this array. The main function displays original and reversed array .
29. Write a function change that accepts an array integers and its size as parameters it divides all array elements by 5 that are divisible by 5 aand multiplies other array element by 2.
30. Write a program that inputs in two array each it declare a function that accepts 4 parameters . The first parameter is the first array ,secon parameter is 2nd array ,3rd parameter is 3rd array and 4th parameter is the length of the arrays. The function adds the corresponding value of first two arrays and stores the result in corresponding element of third array. The main function finally display the value of all arrays.
31. Write a program that inputs value in a 2d array of 5 columns and five rows it display these values using a function display it passes the array to a function times2 () that doubles the values stored in all element of array . The program then again displays the change value of array using display function.
32. Write an inline function MAX(double x, double y), which returns the maximum value of x and y. Test the function by reading values from the keyboard.
33. Write a program that inputs a raduis of circle and uses an inline function Area () to calculate and return the area of circle.