ASSIGNMENT-03 (Operators)

- 1. Enter a 3 digit number and calculate the sum of digits & also display the individual digits.
- 2. WAP to convert a point in rectangular co-ordinate system to polar co-ordinate system.(use atan(x) is in math.h))
 X must be in radian. The conversion is: radian = degree * (3.14 / 180.0)
- 3. WAP to convert a point in polar co-ordinate system to rectangular co-ordinate system.
- 4. If a 4-digit no is inputted through keyboard, WAP to obtain the sum of the first and last digit of the no.
- **5.** WAP to find the average marks of a student by entering 5 subject marks.
- **6.** WAP to enter the side of a square and calculate the radius of the circle whose area is same as the square.
- 7. WAP to calculate the gross salary of an employee by giving basic salary as input. Calculate DA (60% of Basic), HRA(15% of Basic) then calculate Gross Salary = Basic +DA + HRA
- 8. WAP to represent the time in hours, minutes and seconds by giving seconds as input.
- 9. WAP to calculate the year, month and days by giving days as input.
- 10. WAP to represent the distance in meter, centimeter and millimeter by giving millimeter as input.
- **11.** WAP to find the smallest among two numbers using conditional operator.
- **12.** WAP to find the largest among two numbers using conditional operator.
- **13.** WAP to find the smallest among three numbers using conditional operator.
- 14. WAP to find the largest among three numbers using conditional operator.
- **15.** WAP to print the size of each basic data types using **sizeof** operator.
- 16. WAP to find sum of n consecutive natural numbers where starting no is 1.
- **17.** WAP to find the value of following series : $1^2+2^2+3^2+4^2+5^2+6^2+...+n^2$
- **18.** WAP to find the value of following series : $1^3+2^3+3^3+4^3+5^3+6^3+...+10^3$

Bitwise operators

- 19. WAP to demonstrate the Bitwise operation on given variables x and y.(&, |, ~, <<, >>)
- 20. Write a C program to get nth bit of a number.
- 21. Write a C program to swap two numbers using bitwise operator.