**Assignement-1**

1. Write a C program to convert days into years, weeks and days.
2. Write a C program to find power of any number x ^ y.
3. Write a C program to enter any number and calculate its square root.
4. Write a C program to enter two angles of a triangle and find the third angle.
5. Write a C program to enter marks of five subjects and calculate total, average and percentage.
6. Write a C program to enter P, T, R and calculate Compound Interest.
7. Write a C program to count total zeros and ones in a binary number.
8. Write a C program to convert decimal to binary number system using bitwise operator.
9. Write a C program to swap two numbers using bitwise operator.
10. Write a C program to check whether a number is even or odd using bitwise operator.
11. Write a C program to check whether a number is divisible by 5 and 11 or not.
12. Write a C program to check whether a year is leap year or not.
13. Write a C program to check whether a character is alphabet or not.
14. Write a C program to input any character and check whether it is alphabet, digit or special character.
15. Write a C program to check whether a character is uppercase or lowercase alphabet.
16. Write a C program to calculate profit or loss.
17. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:

Percentage >= 90% : Grade A

Percentage >= 80% : Grade B

Percentage >= 70% : Grade C

Percentage >= 60% : Grade D

Percentage >= 40% : Grade E

Percentage < 40% : Grade F

1. Write a C program to input basic salary of an employee and calculate its Gross salary according to following:

Basic Salary <= 10000 : HRA = 20%, DA = 80%

Basic Salary <= 20000 : HRA = 25%, DA = 90%

Basic Salary > 20000 : HRA = 30%, DA = 95%

1. Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units Rs. 0.75/unit

For next 100 units Rs. 1.20/unit

For unit above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill

1. Write a C program to find maximum between three numbers using switch case.
2. Write a C program to check whether a number is positive, negative or zero using switch case.
3. Write a C program to find roots of a quadratic equation using switch case.
4. Write a C program to create Simple Calculator using switch case.