



## Assignment 2

1. Given a binary number convert it into decimal.
2. Given a decimal convert it into binary.
3. Write a program to find  $x^n$ . Take x and n from the user.
4. Write a program to generate the reverse of a given number.
5. Write a program to print first 20 terms of the series  $3n+2$  which are not multiples of 4.
6. Write a program to determine whether the entered character is in upper case or lower case, or is an invalid character.
7. Write a program to calculate the total salary of a person. The user has to enter the basic and the grade and depending upon which the total salary is calculated as:  
t\_sal = basic + hra + da + allow - pf  
where : hra = 20% of basic  
da = 50% of basic  
pf = 11% of basic.  
allow = 1700 if grade = 'A'  
allow = 1500 if grade = 'B'  
allow = 1300 if grade = 'C'
8. Write a program that asks the user for a number n and gives him the possibility to choose between computing the sum and computing the product of  $1, \dots, n$ .