Python Assignment -8 (Functions)

Python Assignment – (Use Functions in all programs)

1. Write a program to calculate area of rectangle

2. Write a program to calculate area of circle

3. Write a program to find sum of following series using functions :

   a. $1 + 2 + 3 + 4 + ... + n$

   b. $1! + 2! + 3! + 4! + ... + n!$

   c. $1^1 + 2^2 + 3^3 + ... n^n$

4. Sum of all odd numbers between 1 to n

5. Sum of all prime numbers between 1 to n

6. Write a program to find print the following Fibonacci series using functions:

   1 1 2 3 5 8 n terms

7. Write a program to find sum of digits of a number.

8. Write a program find reverse of a number

9. Write a program to check if entered number is a palindrome or not.

10.   Write a program to check if entered year is a leap year or not.

11. WAP to check if a given number is Armstrong number or not. For each task create separate functions.