**ASSIGNMENT-6**

**Functions**

Let’s create functions for Python.

1. Create a function to calculate the area of a circle by taking radius from user.
2. Write a function “perfect()” that determines if parameter number is a perfect number. Use this function in a program that determines and prints all the perfect numbers between 1 and 1000.

[An integer number is said to be “perfect number” if its factors, including 1(but not the number itself), sum to the number. E.g., 6 is a perfect number because 6=1+2+3].

3) Print multiplication table of 12 using recursion.

4) Write a function to calculate power of a number raised to other

( a^b ) using recursion.

5) Write a function to find factorial of a number but also store the factorials calculated in a dictionary