

## **Assignment-11(Recursion)**

- 1> Write a Python program to calculate the sum of a list of numbers.
- 2> Write a Python program to converting an Integer to a string in any base.
- 3> Write a Python program of recursion list sum.  
Test Data: [1, 2, [3,4], [5,6]]  
Expected Result: 21
- 4> Write a Python program to get the factorial of a non-negative integer.
- 5> Write a Python program to solve the Fibonacci sequence using recursion.
- 6> Write a Python program to get the sum of a non-negative integer.  
Test Data:  
sumDigits(345) -> 12  
sumDigits(45) -> 9
- 7> Write a Python program to calculate the sum of the positive integers of  $n+(n-2)+(n-4)\dots$  (until  $n-x \leq 0$ ).  
Test Data:  
sum\_series(6) -> 12  
sum\_series(10) -> 30
- 8> Write a Python program to calculate the value of 'a' to the power 'b'.  
Test Data :  
(power(3,4) -> 81
- 9> Write a Python program to find the greatest common divisor (gcd) of two integers.