

# **Python Functions – Exercises Set 6**

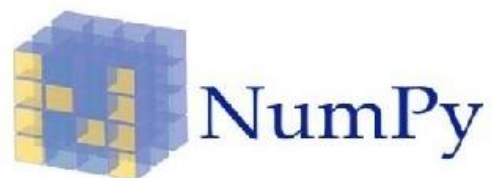
Vetrivel V

- Using recursion function:
  - Add first  $n$  natural numbers
  - Check a number is palindrome or not
  - Print all combination of  $r$  elements in a given list of length  $n$
  - Verify the Pascal's identity  $\binom{n}{r} = \binom{n-1}{r} + \binom{n-1}{r-1}$
  - Print the Pascal's Triangle

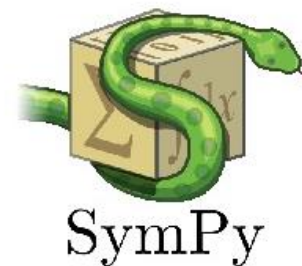
- Write a Python program to find the LCM and GCD of five numbers using recursion
- Write a Python program to calculate the Fibonacci Sequence and then calculate the Fibonacci Series
- Write a Python program to calculate the sum of first n number using recursion
- Write a Python program to calculate the factorial of a number using recursion
- Write a Python program to convert a decimal integer and display its binary equivalent using recursion



# End of Python Lab



IP[y]:  
IPython



pandas  
 $y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$

