**Assignment 3**

1. What are the types of functions available in python and explain the lambda functions in detail.
2. Explain argument passing in python giving an example.
3. Explain recursion in detail. Write a program for factorial using recursion.
4. What are modules in python? Explain the sys module in detail with its methods.
5. Explain the file handling modes in python. Explain the read mode in detail with different read functions.
6. Explain the usage of tell and seek functions with examples.
7. What are classes and objects? What happens when we create an object in python?