Experiment – 3: Functions

Aim: To implement functions and demonstrate the use of lambda functions in programming

Theory:
A function is a block of code that performs a specific task. There are two types of function in Python programming:

- Standard library functions - These are built-in functions in Python that are available to use.
- User-defined functions - Functions created by the programmer based on their requirements.

In Python, a lambda function is a special type of function, known as anonymous function, without the function name. This function can have any number of arguments but only one expression, which is evaluated and returned.

Conclusion:

Task for submission:
(Write comments for every statement of the program)

1. Demonstrate use of round(), floor() and ceil () in python.
2. Write a python program to display Fibonacci series using recursion.
3. Create a lambda function that takes a list of numbers as input and returns back a list of even numbers. (use filter ())
4. Given three sequences of numbers, write a lambda expression using map and zip functions, that will calculate element-wise maximum among these 3 sequences.