

LAB\_1

lab report

200901015|section B| BSCS\_01

1. **Objectives**

1.Write a simple calculator program. Follow the steps below:•Declare and define a function named Menu which displays a list of choices for user such as addition, subtraction, multiplication, & classic division. It takes the choice from user as an input and return.•Define and declare a separate function for each choice.•In the main body of the program call respective function depending on user’s choice.•Program should not terminate till user chooses option to “Quit”.

2.Implement the following functions for the calculator you created in the above task. (Task 1)

•Factorial

•x\_power\_y (x raised to the power y)

•log

•ln (Natural log)

1. **Procedure**

In this we have used numpy, sys and math library in order to perform different arithmetic operations. Then we have used arrays to display the list of operations inside the menu from which the user selects one operation to apply on one more elements/number. To perform different operations on values, we took user input first and then have appended it into the arrays after that we have made individual functions of different arithmetic operations and called them into the main function using if conditions inside the while loop which executes only when the user enters continue and if the user enters exit then the system would terminate.

1. **Working/Results**

