**CSC-462 ARTIFICIAL INTELLIGENCE**

**LAB 03**

**Classes and Inheritance in Python**

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**Activities:**

**Activity 1:**

Create a class name basic\_calc with following attributes and methods; Two integers (values are passed with instance creation) Different methods such as addition, subtraction, division, multiplication Create another class inherited from basic\_calc named s\_calc which should have the following additional methods; Factorial, x\_power\_y,log, ln etc

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In this lab task we were to make a basic calculator with a subclass of scientific calculator. The basic calculator has the functionality of add, subtract , multiply and divide while the scientific calculator has the functionality of factorial power and logarithms. We used object c of subclass to access functions of derived class. It took values using init() of main class.

**Post Activities:**

Create a class of your choice

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In this post lab a class of salary input was made which would take input of salary. While the subclass would calculate the daily wages of each employee.

**Critical Analysis:**

This lab was to get an introduction on objected oriented programming in python language. We used inheritance in this lab to make calculators. We also did a few examples in which we printed the authors name, find the area, perimeter of shapes.