	Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering	
Assignment No 10		

Title: a calculator for complex numbers.

Problem Statement: Implement a Python program calculator for complex numbers.

Objective: To explore the use of modules/functions in Python

Outcome: Implement modules in the program to simplify problem solutions.

Software Requirements: Windows/Linux (Ubuntu/Fedora) Operating System, Python Tool, Python IDE Anaconda/ Jupyter notebook/ Google Colab/ any similar

Theory:

Explain below points considering the description, syntax, sample code/ example etc.

- How to define and call the functions in python
- function types
- Use of * args and **args
- Any additional information

Algorithm:

- Start
- Take Input for the First Complex Number
- Take Input for the Second Complex Number
- Define Addition,Subtraction,Multiplication,Division functions for Complex Operations
- Perform Operations Based on User Choice
- If choice = 1: Call add_complex(n1, n2) and display result.
- If choice = 2: Call subtract_complex(n1, n2) and display result.
- If choice = 3: Call multiply_complex(n1, n2) and display result.
- If choice = 4: Call divide_complex(n1, n2) and display result.
- If the user selects 0, print "Exiting program..." and terminate.
- **If choice is invalid**, display an error message and prompt again.
- End

Input & Output: Students will attach code and output print

Conclusion: Students will write interpretation of the understanding related to the implemented assignment