

Python and Scientific Python Lab

Experiment -1 Programming on Formula and Standard Math Functions

I Pre-Lab Questions

1. What is Python?

Soln. Python is a high level, interpreted, general-purpose programming language. Its design philosophy emphasizes code readability with the use of significant indentation.

2. What is an interpreted language?

Soln. An interpreted language is a language in which the implementation execute instructions directly without earlier compiling a program into machine language.

3. What are the supported data types in Python?

Soln.

- a) Binary
- b) Boolean
- c) Set
- d) Maps
- e) Strings: str.
- f) numbers: int, float.

II Post Lab Questions.

1. Name three features of Python.

Soln.

- a) Easy to code. Python is a very high-level programming language, yet it is effortless to learn.
- b) Object and Procedure oriented.
- c) Easy to Read. Python code looks like simple english words.

2. What is Jupyter Notebook?

Soln. It is the original web application for creating and sharing computational documents. It offers a simple, streamlined, document-centric experience.

3. Name the Python IDEs.

Soln. Jupyter Notebook, Pycharm, Spyder, IDE,
VS Code, Atom, Vim etc.