

## Viva Questions for Python Programming Lab

1. **What is Python, and what are its uses?**

**Answer:** Python is a high-level, interpreted programming language known for its simplicity and readability. It is widely used for web development, data analysis, artificial intelligence, machine learning, automation, and more.

2. **How do you declare a variable in Python?**

**Answer:** In Python, a variable is declared by simply assigning a value to it using the = operator. For example:

```
python
```

```
Copy code
```

```
x = 10
```

```
name = "John"
```

3. **What are Python's basic data types?**

**Answer:** Python's basic data types include:

- o **int:** Integer values (e.g., 10, -5)
- o **float:** Decimal values (e.g., 3.14, -0.01)
- o **str:** Strings (e.g., "hello", 'Python')
- o **bool:** Boolean values (True, False)
- o **list:** Ordered collection (e.g., [1, 2, 3])
- o **tuple:** Immutable collection (e.g., (1, 2, 3))
- o **dict:** Key-value pairs (e.g., {'a': 1, 'b': 2})

4. **What is the difference between a list and a tuple in Python?**

**Answer:**

- o **List:** Mutable (can be modified), defined using square brackets ([]).
- o **Tuple:** Immutable (cannot be modified), defined using parentheses ().  
Example:

```
python
```

```
Code
```

```
my_list = [1, 2, 3] # Mutable
```

```
my_tuple = (1, 2, 3) # Immutable
```

# Python In A Physics Lab The Python Papers

**M Woodhall**



## **Python In A Physics Lab The Python Papers:**

**Catalogue of the annual medical museum in the elementary physics laboratory, Imperial College of Science, South Kensington** British Medical Association,1910

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**Essential Python for the Physicist** Giovanni Moruzzi, 2020-06-02 This book introduces the reader with little or no previous computer programming experience to the Python programming language of interest for a physicist or a natural sciences student The book starts with basic interactive Python in order to acquire an introductory familiarity with the language than tackle Python scripts programs of increasing complexity that the reader is invited to run on her his computer All program listings are discussed in detail and the reader is invited to experiment on what happens if some code lines are modified The reader is introduced to Matplotlib graphics for the generation of figures representing data and function plots and for instance field lines Animated function plots are also considered A chapter is dedicated to the numerical solution of algebraic and transcendental equations the basic mathematical principles are discussed and the available Python tools for the solution are presented A further chapter is dedicated to the numerical solution of ordinary differential equations This is of vital importance for the physicist since differential equations are at the base of both classical physics Newton s equations and quantum mechanics Schroedinger s equation The shooting method for the numerical solution of ordinary differential equations with boundary conditions at two boundaries is also presented Python programs for the solution of two quantum mechanics problems are discussed as examples Two chapters are dedicated to Tkinter graphics which gives the user more freedom than Matplotlib and to Tkinter animation Programs displaying the animation of physical problems involving the solution of ordinary differential equations for which in most cases there is no algebraic solution in real time are presented and discussed Finally

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