

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

Patrick Vollmar



Python In A Physics Lab The Python Papers:

The Enigmatic Realm of **Python In A Physics Lab The Python Papers**: Unleashing the Language is Inner Magic

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