**Python Definitions**

1. **Python** : -

Python is a high level, interpreter and high level programming language.

1. **Variables :-**

Variables are containers for storing data values.

1. **Comments : -**

Comments can be used to explain Python code and Comments can be used to explain Python code.

1. **Strings:-**

String literals in python are surrounded by either single quotation marks, or double quotation marks.

1. **Lists :-**

List is a collection which is ordered and changeable. Allows duplicate members

1. **Dictionary :-**

Dictionary is a collection which is unordered, changeable and indexed. No duplicate members

1. **Tuples :-**

Tuple is a collection which is ordered and unchangeable. Allows duplicate members.

1. **Sets :-**

Set is a collection which is unordered and unindexed. No duplicate members.

1. **Operators :-**

Operators are used to perform operations on variables and values.

* Arithmetic operators
* Assignment operators
* Comparison operators
* Logical operators

1. **Loops :-**

**while : -**

while loop we can execute a set of statements as long as a condition is true.

**for :-**

for loop is used for iterating over a sequence (that is either a list, a tuple, a dictionary, a set, or a string)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Store Different Data types** | **Duplicate values or allowed** | **Order retained** | **Indexing and slicing is possible** | **mutable** |
| **Lists** | True | True | True | True | True |
| **Dictionary** | True | False | False | False | True |
| **Tuples** | True | True | True | True | False |
| **Sets** | True | False | False | False | False |