

Assignment - 1

1) Distinguish between variable, constant and literals with example?

Variable	constant	Literal
1. Variable is a name of location in memory that enables us to store a value for later use.	1. constant is like a variable.	1. Literals are values that are assigned to variables and constants.
2. Example:- <code>int i = 10;</code> // 'i' is a variable & it is a reserved memory location.	2. Example:- <code>const int i = 10;</code> // 'i' is a constant, because its value cannot be changed, once defined.	2. Example:- <code>const int i = 10;</code> // '10' is a literal.

2) Define Identifiers and Data types.

* Identifiers :-

Python Identifier is a name used to identify a variable, function, class, or other object.

An Identifier starts with a letter 'A' to 'Z' or 'a' to 'z' or an underscore '_' followed by zero or more letters, digits etc., we cannot use special symbols like !, @, #, \$, % etc., It cannot start with a digit.

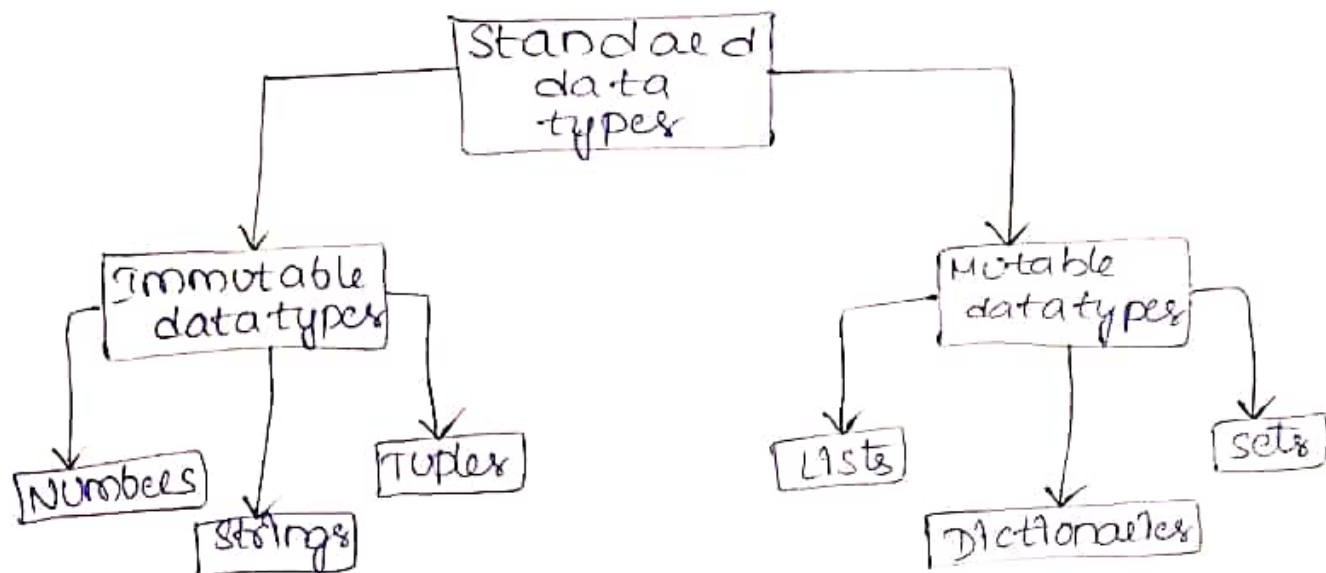
* Data types :-

There are 2 types of data.

i) Primitive Data types.

ii) Non-Primitive Data types.

Standard data types



- Int : we use for number.
- char : we use for only single Alphabet.
- str : we use it for name & any collect of Alphabet.
- Float : we use it for number in decimal.
- Complex : we use it for number in a+j form.
- Double : we use for number and char inc. the size.
- Long : we use it for number and char also it creates whole block and also inc. the size.
- short : we use it for number
- unsigned : we use it for number
- signed etc : we use it for number.

③ Write a program to declare two variable, take one of them from user and determine one by self then compare and print them.

```
Var1 = input("Enter any name")  
Var2 = "Bharana"  
print(Var2 == Var1)  
print(Var1)
```

O/p :

Case ① ⇒ Enter any name : Bharana
True
Bharana.

Case ② ⇒ Enter any name : Prasanna
False
Bharana.