

What are we gonna Master today?

# Data Types in Python

Although a programmer is not mentioning the type while creating variable in his python program, Python internally allot a data type based on declaration style and value.

Overall below are datatypes in Python ÷

## Few Important Point regarding Python Data Types

1. Data types in Python are dynamic
2. Size of data type is also dynamically managed
3. Data types are unbounded.

1] Data points in python are dynamic

The term dynamic means that we can assign different values to the same variable at different point of time.

★ Python will dynamically change the type of variable as per the value given.

Eg ÷  
a = 5  
a = "python"  
a = 3.5

2] Size of the data type is also dynamically managed.

In python, size of data type is dynamically managed.

Unlike C/C++/Java, variables in python are not of fixed size.

★ Python makes variable as big as required on demand.

How much memory Python uses to store a particular variable?

Above Question is wrong as python increases/decreases as per value assigned.

```
import sys
```

```
sys.getsize of C >
```

Let us see some examples

3] Data Types are unbounded

Always remember that Python data type like integers don't have any range i.e. they are unbounded.

★ Unlike C/C++, they don't have a min or max value.

⇒ int type can store as many digits as we want.