

In [2]:

```
name = "sunil"  
age = 36  
print(name)  
print(age)
```

```
sunil  
36
```

In [7]:

```
print("sunil")  
print(name,age)
```

```
sunil  
sunil 36
```

In [9]:

```
print("my name is " , name)  
print("my age is" ,age)
```

```
my name is sunil  
my age is 36
```

In [15]:

```
course = "pcai"  
cohort = "august"  
print("i belong to " , course,"i belong" , cohort)
```

```
i belong to pcai i belong august
```

In [17]:

```
name = "sunil"  
age = 36  
type(name),type(age)
```

Out[17]:

```
(str, int)
```

In [20]:

```
name= "sunil kumar"  
age = 36  
height = 166.65  
weight = 72
```

Out[20]:

```
float
```

In [21]:

```
type(age)
```

Out[21]:

int

In [22]:

```
type(height)
```

Out[22]:

float

In [23]:

```
type(weight)
```

Out[23]:

int

In [24]:

```
type(name)
```

Out[24]:

str

Data Types of Python

- some data types are mutable and some are immutable
- Mutable are the ones which can be modified
- immutable are the ones that can not be modified once you create them

Below given are the few data types that we have in python

- Numeric
- string
- Tuples
- list
- set
- dictionaries
- None
- Range

Mutable data types in python

- List
- Dictionaries
- Set

Immutable Data Types in python

- Numeric
 - String
 - Tuples
-
- Let's start our discussion with the immutable data types in python
 - we will start our discussion with Numeric data types in python

Numeric Data Types in Python

In Python we have 4 numeric data types

- Integer
- Float
- Boolean
- Complex

Let's talk about the integer data types in Python

In [31]:

```
# Create two variables a and b with some integer values assigned to them  
a = 25  
b = 2  
type(a)
```

Out[31]:

int

In [28]:

```
type(b)
```

Out[28]:

int

In [6]:

```
print(type(a))
```

```
<class 'float'>
```

In [2]:

```
a = 12.9
b = 3.6
c = a + b
d = a - b
e = a * b # whatch out for the round off error !
f = a / b
print(a, b, c, d, e, f, sep="\n")
print(a, b, c, d, e, f)
```

```
12.9
```

```
3.6
```

```
16.5
```

```
9.3
```

```
46.440000000000005
```

```
3.5833333333333335
```

```
12.9 3.6 16.5 9.3 46.440000000000005 3.5833333333333335
```

In []: