Datatypes

Integer, Float, *String,* Boolean, *Complex

In [5]:
```
1+1         #basic operations
```

Out[5]:
```
2
```

In [6]:
```
4*5
```

Out[6]:
```
20
```

In [7]:
```
10/2
```

Out[7]:
```
5.0
```

In [8]:
```
10%2
```

Out[8]:
```
0
```

In [9]:
```
type(1)                    #type(),used to find the Datatype
```

Out[9]:
```
int
```

In [11]:
```
type("Hello")                #string
```

Out[11]:
```
str
```

In [1]:
```
type(1.6)                    #float
```

Out[1]:
```
float
```

In [2]:
```
type(True)                    #bool
```

Out[2]:
```
bool
```

In [3]:
```
a = 3+4j                    #complex
type(a)
```

Out[3]:
```
complex
```

In [14]:
```
"Hello"
```

Out[14]:
```
'Hello'
```

In [16]:
```
type("Hello")                # Double quote and single quote are same thing
type('Hello')
```

Out[16]:
```
str
```

In [6]:
```
marvel_super_hero = "Iron Man"              #variable
print(marvel_super_hero)
```

```
Iron Man
```

In [3]:
```
marvel_super_hero = "Captain America"              #variables names can be changed
print(marvel_super_hero)
```

```
Captain America
```

In [5]:
```
hero1,hero2,hero3 = "Iron Man", "Captain America", "Bat Man"        #Multiple variable
print(hero1)
print(hero2)
print(hero3)
```

```
Iron Man
Captain America
Bat Man
```

In [7]:
```
x=y=z=23
print(x)
print(y)
print(z)
```

```
23
23
23
```

Various ways of printing

In [17]:
```
print("hello")
```

```
hello
```

In [18]:
```
first_name='Shantanu'
last_name='Mishra'
```

In [19]:
```
print("My First name is {} and my Last name is {}".format(first_name,last_name))
```

```
My First name is Shantanu and my Last name is Mishra
```

In [20]:
```
print("My First name is {first} and my Last name is {last}".format(first=first_name, l
```

```
My First name is Shantanu and my Last name is Mishra
```

In [21]:
```
len('Shantanu')                                    #Used to find the lenght
```

Out[21]:
```
8
```

In [23]:
```
len('123456789')
```

Out[23]:
```
9
```

Input Function

In [14]:
```
num1 = input("Enter the first number: ")
num2 = input("Enter the second number: ")
sum = num1 + num2
print(sum)                          # Here it will take input as string by default
```

```
Enter the first number: 23
Enter the second number: 34
2334
```

In [15]:
```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
sum = num1 + num2
print(sum)
```

```
Enter the first number: 10
Enter the second number: 20
30
```

In [16]:
```
num1 = int(input("Enter the first number: "))
num2 = int(input("Enter the second number: "))
sum = num1 + num2
print("The Sum of the numbers are {}".format(sum))
```

```
Enter the first number: 23
Enter the second number: 34
The Sum of the numbers are 57
```

In [21]:
```
# Changing the data type in python -> Typecasting
num = 5
print(type(num))
print(float(num))
```

```
<class 'int'>
5.0
```