Data Type

```
In [1]: a=20
        a
```

Out[1]: 20

```
In [2]: type(a) # In this Scenario we have to know which type of value is
```

Out[2]: int

```
In [3]: a=20.34
        a
```

Out[3]: 20.34

```
In [4]: type(a)
```

Out[4]: float

```
In [5]: i=45
        print(i)
```

45

Float Usecase

```
In [6]: petrol=101.11
        petrol
```

Out[6]: 101.11

```
In [7]: type(petrol)
```

Out[7]: float

```
In [8]: i1,i2=10
        i1,i2
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[8], line 1
----> 1 i1,i2=10
      2 i1,i2

TypeError: cannot unpack non-iterable int object
```

```
In [9]: i2,i2=10,20
        print(i1)
        print(i2)
        print(I1+I2)
        print(i1-i2)
```

```
print(i1*i2)
print(i1/i2)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[9], line 2
      1 i2,i2=10,20
----> 2 print(i1)
      3 print(i2)
      4 print(I1+I2)

NameError: name 'i1' is not defined
```

In [10]:
```
i1,i2=10,20
print(i1)
print(i2)
```

```
10
20
```

In [11]:
```
print(i1+i2)
```

```
30
```

In [12]:
```
print(i1-i2)
```

```
-10
```

In [13]:
```
print(i1*i2)
```

```
200
```

print(i1/i2)

In [14]:
```
print(i1/i2)
```

```
0.5
```

In [15]:
```
s=nareshit
s
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[15], line 1
----> 1 s=nareshit
      2 s

NameError: name 'nareshit' is not defined
```

In [16]:
```
s='nareshit'
s
```

Out[16]:   'nareshit'

In [17]:
```
type(s)
```

Out[17]:   str

In [18]:
```
b='''hi my name is
              Biswajit Mahanta'''
b
```

Out[18]: 'hi my name is \n   Biswajit Mahanta'

In [19]: ```python
print(s(0))
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[19], line 1
----> 1 print(s(0))

TypeError: 'str' object is not callable
```

In [20]: ```python
print(s[0])
```

n

print(s[-1])

In [21]: ```python
print(s[-1])
```

t

print(s[-3])

In [22]: ```python
print(s[-3])
```

h

In [23]: ```python
s[2:5}
```

```
  Cell In[23], line 1
    s[2:5}
         ^
SyntaxError: closing parenthesis '}' does not match opening parenthesis '['
```

In [24]: ```python
print(s[2:5])
```

res

In [ ]:

In [ ]: