In [ ]:
```
#Python Special Operators
```

In [ ]:
```
#Identity Operators
```

In [2]:
```
x1=10
y1=20

x2="Radhika"
y2="Murali"

x3=[1,2,4]
y3=[1,2,4]
```

In [4]:
```
(x1 is y1)
```

Out[4]:
```
False
```

In [5]:
```
(x1 is not y1)
```

Out[5]:
```
True
```

In [6]:
```
(x2 is y2)
```

Out[6]:
```
False
```

In [7]:
```
(x2 is not y2)
```

Out[7]:
```
True
```

In [8]:
```
(x3 is y3)
```

Out[8]:
```
False
```

In [9]:
```
(x3 is not y3)
```

Out[9]:
```
True
```

In [11]:
```
#Membership Operators
```

In [12]:
```
a="Hello World"
p=(R:1 , M:2)
```

In [13]:
```
(O in a)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[13], line 1
----> 1 (O in a)

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

In [15]:
```
("o" in a)
```

Out[15]:
```
True
```

In [22]:
```
(1 in "p")
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[22], line 1
----> 1 (1 in "p")

TypeError: 'in <string>' requires string as left operand, not int
```

In [21]:
```
("R" in "p")
```

Out[21]:
```
False
```

In [26]:
```
P=(1:"R" , 2:"M")
```

```
  Cell In[26], line 1
    P=(1:"R" , 2:"M")
       ^
SyntaxError: invalid syntax
```

In [28]:
```
P=(1:"a" , 2:"b")
```

```
  Cell In[28], line 1
    P=(1:"a" , 2:"b")
       ^
SyntaxError: invalid syntax
```

In [29]:
```
# precedence Operators
```

In [33]:
```
# question : 20+5-10-(20*5)*15
```

In [34]:
```
(20+5-10-(20*5)*15)
```

Out[34]:
```
-1485
```

In [35]:
```
a=5
b=2
```

In [36]:
```
a**b
```

Out[36]:
```
25
```

In [37]:
```
b**a
```

Out[37]:
```
32
```

In [38]:
```
a+b
```

Out[38]:
```
7
```

In [39]:
```
a-b
```

Out[39]:
```
3
```

In [40]:
```
a*b
```

Out[40]:
```
10
```

In [43]:
```
#Creating a list
```

In [45]:
```
#list is created with [] and seperated with a ","(comma)
```

In [46]:
```
a=[2,4,6,8]
b=[1,3,5,7]
```

In [ ]:
```
#Index - +ve index starts from "0,1,2", -ve index starts from "-1,-2,-3" and gives (n-
```

In [47]:
```
print(a[-1])
```

```
8
```

In [48]:
```
(a[-1])
```

Out[48]:
```
8
```

In [49]:
```
(b[2])
```

Out[49]:
```
5
```

In [ ]:
```
#String
```

In [51]:
```
print(a(1:4))
```

```
  Cell In[51], line 1
    print(a(1:4))
              ^
SyntaxError: invalid syntax
```

In [52]:
```
a[1:3]
```

Out[52]:
```
[4, 6]
```

In [53]:
```
b[-1:-4]
```

Out[53]:
```
[]
```

In [56]:
```
a[2:4]
```

Out[56]:
```
[6, 8]
```

In [57]:
```
Radhika = "Music","CREATIVE","BOLD"
Murali = "Games","Friends","Studies"
```

In [64]:
```
(Radhika + Murali)
```

Out[64]:
```
('Music', 'CREATIVE', 'BOLD', 'Games', 'Friends', 'Studies')
```

In [65]:
```
Radhika*2
```

Out[65]:
```
('Music', 'CREATIVE', 'BOLD', 'Music', 'CREATIVE', 'BOLD')
```

In [66]:
```
Murali*4
```

Out[66]:
```
('Games',
 'Friends',
 'Studies',
 'Games',
 'Friends',
 'Studies',
 'Games',
 'Friends',
 'Studies',
 'Games',
 'Friends',
 'Studies')
```

In [ ]:
```

```