

In [1]:

```
1 ### DATA TYPES AND CONVERSIONS
```

In [2]:

```
1 ### DATA TYPES AND CONVERSIONS
2 1.int
3 2.float
4 3.string
```

File "<ipython-input-2-5eef980c3c35>", line 2

1.int

^

SyntaxError: invalid syntax

In [3]:

```
1 n1=5
2 type(n1)
```

Out[3]:

int

In [4]:

```
1 n2=45.9
2 print("n2 = ",n2)
3 type(n2)
```

n2 = 45.9

Out[4]:

float

In [5]:

```
1 n2="supriya"
2 type(n2)
3
```

Out[5]:

str

In [6]:

```
1 n2 = "harsha"
2 print(n2)
3 type(n2)
```

harsha

Out[6]:

str

In [7]:

```
1 n=13
2 m=14
3 print(type(n))
4 print(type(m))
```

<class 'int'>

<class 'int'>

In [9]:

```
1 n=5
2 print(type(n))
3 print(type(str(n)))
```

<class 'int'>

<class 'str'>

In [10]:

```
1 n=6
2 m=7.8
3 type(n)
4 type(m)
```

Out[10]:

float

In [11]:

```
1 n=4
2 s=str(n)
3 print(type(s))
4
```

<class 'str'>

In [12]:

```
1 n1=7
2 m=8
3 print(n1+m)
```

15

In [13]:

```
1 n="harsha"
2 m="priya"
3 print(n+m)
```

harshapriya

In [15]:

```
1 n= 'harsha'
2 m='supriya'
3 print(n+m)
```

harshasupriya

Indentation

In [23]:

```
1 n1,n2=13,12
2 if(n1<n2):
3     print("n1 is greater than n2")
4 else:
5     print("n2 is greater than n1")
```

n2 is greater than n1

In [27]:

```
1 n,m=12,13
2 if(n<m):
3     print("n is greater than m")
4 else:
5     print("harsha")
```

n is greater than m

READING INPUT DYNAMICALLY

In [1]:

```
1 x= input()
2 print(x)
3 print(type(x))
```

123

123

<class 'str'>

In []:

```
1 x=input()
2 print(x)
3 print(type(x))
```

In [2]:

```
1 a=123
2 print(type(a))
3 f= float(a)
4 print(type(a))
5 print(a)
6 print(f)
```

```
<class 'int'>
<class 'int'>
123
123.0
```

In [5]:

```
1 n=int(input("Enter a value:"))
2 print(n)
3 print(type(n))
```

```
Enter a value:65
65
<class 'int'>
```

In [6]:

```
1 f=float(input("Enter a value:"))
2 print(f)
3 print(type(f))
```

```
Enter a value:78.9
78.9
<class 'float'>
```

operators

1.ARITHMETIC OPERATORS 2.ASSIGNMENT 3.COMPARISION 4.LOGICAL 5.IDENTITY 6.MEMBERSHIP
7.BITWISE

```
1 # 1.ARITHMETIC OPRATORS
2 +, -, *, /, %, //, **
```

In [8]:

```
1 a,b =5,3
2 print(a+b)
3 print(a-b)
4 print(a*b)
5 print(a/b)
6 print(a//b)
7 print(a**b)
```

```
8
2
15
1.6666666666666667
1
125
```

2.ASSIGNMENT OPERATOR -=,+=,*=,ETC

In [9]:

```
1 a=12
2 print(a)
```

```
12
```

In [10]:

```
1 a += 1 #a=a+1
2 print(a)
```

```
13
```

In [11]:

```
1 a
```

Out[11]:

```
13
```

In [12]:

```
1 a -= 2 #a=a-2
2 print(a)
```

```
11
```

3.COMPARISION OPERATORS

. ==,>,<,>=,<=,!=

In [13]:

```
1 n,m =5,3
2 print(n==m)
3 print(n != m)
```

False

True

```
1 # 4. LOGICAL OPERATORS
2 * AND,OR, NOT
3
```

In [16]:

```
1 a = 5
2 print(a<6 and a>2)
3 print(a<6 or a>2)
```

True

True

In [17]:

```
1 res =a<6 or a>2
2 print(not(res))
```

False

```
1 # 5.IDENTITY OPERATOR (IMPORTANT)
2 * IS, IS NOT
```

In [20]:

```
1 X,Y =5,3
2 print(X is Y)
```

False

In [22]:

```
1 print(X is not Y)
```

True

In [23]:

```
1 a,b=9,8
2 print(a is b)
3 print(a is not b)
```

False

True

```
1 # 6.MEMBERSHIP OPERATOR
```

```
2 * in,not in
```

In [24]:

```
1 vechiles=["bike","car","bycycle"]
2 print('bike' in vechiles)
```

True

In [25]:

```
1 print('apple' not in vechiles)
```

True

```
1 # 7.BITWISE OPERATOR
2 * &.,|,^,>><<,~(ex-or)
```

In [27]:

```
1 a=int(input("enter a worth"))
2 b=int(input("enter b worth"))
3 c=int(input("enter c worth"))
4 #a,b,c=int(input()),int(input()),int(input())
5 if a>b:
6     print(a,"Park jimin is an angel")
7     else:
8         print(c,"park jimin is a cutie pie")
9     else if b>c:
10        print(b,"park jimin is my lovely bro")
11        else:
12            print(c,"Mr.park jimin is doing well")
```

File "<ipython-input-27-cc6e3ad11860>", line 7

else:

^

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In []:

```
1
```