

Q1. Explain the key features of Python that make python popular.

ans1) 1. easy to learn


2. widely used in the industries.
3. python has lots of libraries.
4. python has huge active community.

Start coding or [generate v](#)

```
#ans2) Python Keywords are some prede  
print ("pws")
```


 pws

```
#ans3 immutable  
t1=(0,3,5,6)  
t1[2]=6  
print (t1)
```

 -----
TypeError Traceback (most recent call last)
<ipython-input-3-40dca5d0b058> in <cell line: 3>()
 1 #ans3 immutable
 2 t1=(0,3,5,6)
----> 3 t1[2]=6
 4 print (t1)

TypeError: 'tuple' object does not support item assignment

```
#mutable  
l1=[2,4,8,9,0]  
l1.append(5)  
print (l1)
```

 [2, 4, 8, 9, 0, 5]

```
#ans4 operators are special symbols that perform operations on variables and va
print(5+9) #addition
print(5-4)# subtraction
print(3*4)#multiple
print(5%4)#modulo
a="deepika"# membership
"i" in a
⇒ 14
   1
   12
   1
   True
```

Ans5 type Casting in Python:

Python Implicit Type Conversion Python Explicit Type Conversion

```
# implicit type Casting

# Python automatically converts
# a to int
a = 7
print(type(a))

# Python automatically converts
# b to float
b = 3.0
print(type(b))

# Python automatically converts
# c to float as it is a float addition
c = a + b
print(c)
print(type(c))

# Python automatically converts
# d to float as it is a float multiplication
d = a * b
print(d)
print(type(d))
⇒ <class 'int'>
   <class 'float'>
   10.0
   <class 'float'>
   21.0
   <class 'float'>
```

```
#ans 6
a = 33
b = 200
if b > a:
    print("b is greater than a")
⇒ b is greater than a
```

```
#Ans7
fruits = ["apple", "banana", "cherry"]
for x in fruits:
    print(x)
⇒ apple
    banana
    cherry
```