

In []:

```
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```

In [1]:

```
#Question no. 01  
t3=('a','b','c','d','e')  
t3=t3[1:]  
print(t3)
```

```
('b', 'c', 'd', 'e')
```

In [2]:

```
#Question no. 02  
t1=('p','y','t','h','o','n','p','r','o','g','r','a','m')  
#count  
print(t1.count('p'))  
#index  
print(t1.index('y'))  
print(t1.index('h'))
```

```
2  
1  
3
```

In [4]:

```
#Question no. 03  
#dictionary with integer keys  
my_dict={1:'apple',2:'ball'}  
print(my_dict)  
print(my_dict[2])
```

```
{1: 'apple', 2: 'ball'}  
ball
```

In [5]:

```
#Question no. 04  
#dictionary with mixed keys  
my_dict={'name':'john',1:{2,4,3}}  
print(my_dict)  
print(my_dict['name'])  
print(my_dict[1])
```

```
{'name': 'john', 1: {2, 3, 4}}  
john  
{2, 3, 4}
```

In [6]:

```
#Question no.05
my_dict={(1,2,3):"abc",3.14:"abc"}
print(my_dict)
```

```
{(1, 2, 3): 'abc', 3.14: 'abc'}
```

In [8]:

```
#Questtion no. 06
#using dict()
my_dict=dict({1:"apple",2:"ball"})
print(my_dict)
```

```
{1: 'apple', 2: 'ball'}
```

In [12]:

```
#Question no. 07
my_dict={'name':'Ram','age':21}
print(my_dict)#display all items
print(my_dict.get('name'))#Retrives the value of name key
my_dict['age']=23#update value
print(my_dict)
my_dict['dept']='cse'#add item
print(my_dict)
```

```
{'name': 'Ram', 'age': 21}
Ram
{'name': 'Ram', 'age': 23}
{'name': 'Ram', 'age': 23, 'dept': 'cse'}
```

In [13]:

```
#Question no. 08
squares={1:1,2:4,3:9,4:16,5:25}
print(squares.pop(3))#remove an arbitrary item
print(squares)
del squares[5]#delete a particular item
squares.clear()#remove all items
print(squares)
```

```
9
{1: 1, 2: 4, 4: 16, 5: 25}
{}
```

In [15]:

```
#Qusetion no. 09  
#sorting a dictionary  
marks={}.fromkeys(['Math','English','Science'],0)  
print(marks)  
for item in marks.items():  
    print(item)  
    print(list(sorted(marks.keys())))
```

```
{'Math': 0, 'English': 0, 'Science': 0}  
( 'Math', 0)  
['English', 'Math', 'Science']  
( 'English', 0)  
['English', 'Math', 'Science']  
( 'Science', 0)  
['English', 'Math', 'Science']
```

In [16]:

```
#Qusetion no. 10  
#Iterating through a dictionary  
squares={1:1,2:4,3:9,4:16,5:25}  
for i in squares:  
    print(squares[i])
```

```
1  
4  
9  
16  
25
```