```
t3=('a','b','c','d','e')
t3=t3[1:]
print(t3)
```

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

```
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
```

```
#DICTIONARY
3.#dictionary with integer keys
my_dict={1:'apple',2:'ball'}
print(my_dict)
print(my_dict[2])
```

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

```
4.#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, 4, 3]}
John
[2, 4, 3]
```

```
#5
my_dict={(1,2,3):"abc",3.14:"abc"}
print(my_dict)
```

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

```
6.#using dict()
my_dict=dict({1:"apple",2:"ball"})
print(my_dict)
```

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

```
#7
my_dict={'name':'Ram','age':21}
print(my_dict)#display all items
print(my_dict.get('name'))#Retrieves 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'}
```

```
#8
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}
```

```
{}
```

```
9.#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']
```

```
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
```

✓ 0s completed at 1:18 PM