```
Name:SARASWATHI G
Roll.no:191109043
Class:2nd B.Sc Chemistry(Aided)
Assignment:5
Topic:Dictionary
```

1)

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

```
    ['A', 'B', 'c', 'd', 'e']
```

2)

```
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':'join',1:[2,4,3]}
print(my_dict)
```

```
print(my_dict['name'])
print(my_dict[1])
```

```
{'name': 'join', 1: [2, 4, 3]}
join
[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')) #reterive the value of name
my_dict['age']=23 #update the age
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)

```
square={1:1,2:4,3:9,4:16,5:25}
print(square.pop(3)) #remove a particular item
print(square)
print(square.popitem()) #remove an arbitary item
print(square)
print(square.clear()) #remove all item
print(square)
```

```
9
{1: 1, 2: 4, 4: 16, 5: 25}
(5, 25)
{1: 1, 2: 4, 4: 16}
None
{}
```

9)sorting a Dictionary

```python
marks={}.fromkeys(['Math','English','Science',0])
print(marks)
for item in marks.items():
print item
print list (sorted(marks.keys()))
```

10)Iterating through a dictionary

```python
square={1:1,2:4,3:9,4:16,5:25}
for i in square:
        print(square[i])
```

```
1
4
9
16
25
```

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