PYTHON ASSIGNMENT - 5

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In [51]:

```python
###1)
t3=('a','b','c','d','e')
t=t3[1:]
print(t)
```

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

In [9]:

```python
#2)
t1=('p','y','t','h','o','n','p','r','o','g','r','a','m')
#Count
print('Number of times the letter p has repeated : ',t1.count('p'))
#Index
print ('The index of y : ',t1.index('y'))
print ('The index of p : ',t1.index('h'))
```

```
Number of times the letter p has repeated :  2
The index of y :  1
The index of p :  3
```

In [11]:

```python
#DICTIONARY

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

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

In [12]:

```python
#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]
```

In [13]:

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

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

In [14]:

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

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

In [50]:

```
#7)
#display all items
my_dict={'name':'Ram','age':'21'}
print(my_dict)
#Retriving the value of an item
print(my_dict.get('name'))
#update value
my_dict['age']=23
print(my_dict)
#add item
my_dict['dept']='CSE'
print(my_dict)
```

{'name': 'Ram', 'age': '21'}
Ram
{'name': 'Ram', 'age': 23}
{'name': 'Ram', 'age': 23, 'dept': 'CSE'}

In [39]:

```python
#8)
squares={1:1,2:4,3:9,4:16,5:25}
#remove a particular item
print(squares.pop(3))
print(squares)
#remove an arbitrary item
print(squares.popitem())
print(squares)
#delete a particular item
del squares[4]
print(squares)
#remove all items
squares.clear()
print(squares)
```

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

In [49]:

```python
#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', 0)
('Science', 0)
['English', 'Math', 'Science']
```

In [47]:

```python
#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
```