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In [ ]: jayapradha C  
191109019
```

```
In [13]: #Q1  
  
t3=('a','b','c','d','e')  
  
t3=('B')+t3[1]  
  
t3=('A')+t3[1:]  
  
print(t3)
```

Ab

```
In [14]: 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 [24]: #Q3  
  
#dictionary with integer keys  
  
my_dict= {1:'apple',2:'ball'}  
print (my_dict)  
print (my_dict[2])
```

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

```
In [22]: #Q4  
  
#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 [25]: #Q5

```
my_dict={(1,2,3):'abc',(3,1,4):'abc'}  
print (my_dict)
```

```
{(1, 2, 3): 'abc', (3, 1, 4): 'abc'}
```

In [26]: #Q6

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

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

In [54]: #Q7

```
my_dict={'name':'ram','age':21}  
print (my_dict) #display all items  
print (my_dict.get('name'))#retrieves the value of name  
print my_dict['age']=23 #update value  
print (my_dict)  
my_dict['dept']='CSE' #add  
itemprint (my_dict)
```

File "<ipython-input-54-3af94c796bda>", line 6

```
print my_dict['age']=23 #update value
```

^

SyntaxError: Missing parentheses in call to 'print'. Did you mean print(my_dict['age']=23 #update value)?

In [63]: #Q8

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

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

```
-----
KeyError                                Traceback (most recent call last)
<ipython-input-63-223292655375> in <module>
      6 print(squares.popitem()) #remove an arbitrary
      7 print(squares)
----> 8 del(squares[5])#delete a particular
      9 print(squares.clear()) #remove all
     10 items
```

KeyError: 5

In [68]: #Q9

```
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)
```

```
-----
TypeError                                Traceback (most recent call last)
<ipython-input-68-b6a5b2c6aa99> in <module>
      5 for item in marks.items():
      6     print (item)
----> 7 print [list(sorted(marks.keys()))]
```

TypeError: 'builtin_function_or_method' object is not subscriptable

In [69]: #Q10

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

```
1  
4  
9  
16  
25
```