191109020 - ASSIGNMENT 05

Question no.01

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

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

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
```

Dictionary

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
```

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

Question no.05

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

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

Question no.06

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

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

Question no.07

```
my_dict={'name':'Ram','age':21}
print(my_dict) # display all items
print(my_dict.get('name')) # Retrieves the value of namekey
my_dict['age']=23 # update value
print(my_dict)
my_dict['dept']='CSE' # additem
print(my_dict)
```

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

Question no.08

```
squares={1:1,2:4,3:9,4:16,5:25}
print(squares.pop(3)) # remove a particular item
print(squares)
print(squares.popitem() ) # remove an arbitrary item
print(squares)
del squares[4] # delete a particular item
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}
None
{}
```

Question 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', 0)
('Science', 0)
['English', 'Math', 'Science']
```

Question 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
```