Viresh Rathod -SE3-23

Strings in Python

```
# Assigning string to a variable
a = 'This is a string'
print (a)
b = "This is a string"
print (b)
c= '''This is a string'''
print (c)
```

```
This is a string
This is a string
This is a string
```

Lists in Python

```
# Declaring a list
L = [1, "a" , "string" , 1+2]
print (L)
#Adding an element in the list
L.append(6)
print (L)
#Deleting last element from a list
L.pop()
print (L)
#Displaying Second element of the list
print (L[1])
```

```
[1, 'a', 'string', 3]
[1, 'a', 'string', 3, 6]
[1, 'a', 'string', 3]
a
```

Tuples in Python

```
tup = (1, "a", "string", 1+2)
print(tup)
print(tup[1])
```

```
(1, 'a', 'string', 3)
```

```
a
```

Dictionaries in Python

```
d = {1: 'Lorem', 2: 'Ipsum', 3: 'Dolerum'}
print(d)
```

```
{1: 'Lorem', 2: 'Ipsum', 3: 'Dolerum'}
```

Create a Dictionary

```
# create dictionary using { }
d1 = {1: 'Game', 2: 'of', 3: 'Thrones'}
print(d1)

# create dictionary using dict() constructor
d2 = dict(a = "House", b = "of", c = "Cards")
print(d2)

{1: 'Game', 2: 'of', 3: 'Thrones'}
{'a': 'House', 'b': 'of', 'c': 'Cards'}
```

Accessing Dictionary Items

```
d = { "name": "sassaa", 1: "Python", (1, 2): [1,2,4] }

# Access using key
print(d["name"])

# Access using get()
print(d.get("name"))

sassaa
sassaa
```

Deleting Dictionary items

```
thisdict = {
 "brand": "Ford",
 "model": "Mustang",
 "year": 1964
}
thisdict.popitem()
 print(thisdict)
```

```
{'brand': 'Ford', 'model': 'Mustang'}
```

Adding and Updating Dictionary Items

```
d = {1: 'Game', 2: 'of', 3: 'Thrones'}

# Adding a new key-value pair
d["age"] = 22

# Updating an existing value
d[1] = "Python dict"
```

```
print(d)
```

```
{1: 'Python dict', 2: 'of', 3: 'Thrones', 'age': 22}
```