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Assesment-1

1. Just to see how to print a string in python.

```
In [6]: #print single line in python
        S="Shakesphere gave the best theatrics to the world"
        print (S)
```

```
Shakesphere gave the best theatrics to the world
```

Observation: To print a String in python we can use single quote or even double quote.

2. Just to see how to Print a multi-line string in python.

```
In [9]: #print multiline string in python
        P= """What a piece of work is man, How noble in reason, how infinite in faculty, In form and moving how express and admirable, In
        Hamlet (1599-1602), Act II, Scene 2,
        web of our life is of a mingled yarn, good and ill together.
        All's Well That Ends Well (1600s), Act IV, scene 3, line 80.
        O excellent! I love long life better than figs.
        Antony and Cleopatra (1600s), Act I, scene 2, line 32.
        And this our life, exempt from public haunt,
        Finds tongues in trees, books in the running brooks,
        Sermons in stones, and good in everything."""
        print(P)
```

```
What a piece of work is man, How noble in reason, how infinite in faculty, In form and moving how express and admirable, In act
ion how like an Angel, In apprehension how like a god, The beauty of the world, The paragon of animals. And yet to me, what is
this quintessence of dust? Man delights not me; no, nor Woman neither;
Hamlet (1599-1602), Act II, Scene 2,
web of our life is of a mingled yarn, good and ill together.
All's Well That Ends Well (1600s), Act IV, scene 3, line 80.
O excellent! I love long life better than figs.
Antony and Cleopatra (1600s), Act I, scene 2, line 32.
And this our life, exempt from public haunt,
Finds tongues in trees, books in the running brooks,
Sermons in stones, and good in everything.
```

Observation: To print multi-line code we need to use "Triple double quotes or Triple Single quotes", even we can split the lines even then doesn't give any error like shown in above Screen shot.

3. Just to see if any Apostrophe comes in any string does it clash with the quotes we use for print statement.

```
In [13]: S = "They didn't do the work"
         print(S)
         P = '''They didn't do the work''' #when we use a apostrophe we can use "double quote" or "single triple quote"
         print(P)
```

```
They didn't do the work
They didn't do the work
```

Observation: While we are using some contradiction sentence or the Interrogative sentence there must be error while using only single quote but with double quote no problem as we can see above. But for single quote error we can use three single quote to execute that.

4. **Just to display list of cities and the one more city to the list and also print particular city that he/she is going to travel.**

```
In [16]: #print list of cities
         Cities=['Ahmedabad','Chennai','Surat','Coimbatore']
         print(Cities)
         print(Cities[3]) #print a particular city
         Cities.append('Tuskany') #append a new city
         print("Updated cities:",Cities)

         ['Ahmedabad', 'Chennai', 'Surat', 'Coimbatore']
         Coimbatore
         Updated cities: ['Ahmedabad', 'Chennai', 'Surat', 'Coimbatore', 'Tuskany']
```

Observation: To display a list we can even use "[]" or without bracket separated by a comma and display list of cities and even particular city from the list and also we can add new city to the list by using the "append" keyword and we can display the updated list also.

5. **How does the tuple work .**

```
In [17]: #print tuple
         tuple = ("M.S Dhoni","Sachin")
         print(tuple)

         ('M.S Dhoni', 'Sachin')
```

Observation: Tuple works for displaying unordered list but it cannot be updated as shown below. We have to use "()" bracket and without that also we can use the tuple but only one problem updating is not possible.

```
In [2]: #print tuple
        tuple = ("M.S Dhoni","Sachin")
        print(tuple)
        tuple.append('Ashwin')
        print(tuple)

        ('M.S Dhoni', 'Sachin')

        ---------------------------------------------------------------------
        AttributeError                          Traceback (most recent call last)
        <ipython-input-2-25c851433f2e> in <module>
              2 tuple = ("M.S Dhoni","Sachin")
              3 print(tuple)
        ----> 4 tuple.append('Ashwin')
              5 print(tuple)

        AttributeError: 'tuple' object has no attribute 'append'
```

6. To use a key and value in python we have dictionary to use.

```
In [22]: #python dictionary
         my_dict = {'Sachin' : 'Crickter', 'Virat Kholi' : 'Crickter', 'Sachin' : 'Crickter' , 'Shewag' : 'Cricket' , 'Ashwin' : 'Crickte
         print (my_dict)
         print(my_dict['Sachin'])

         {'Sachin': 'Crickter', 'Virat Kholi': 'Crickter', 'Shewag': 'Cricket', 'Ashwin': 'Crickter'}
         Crickter
```

Observation: To save some value using key value we have dictionary we can store by creating a dictionary and storing the specific key to the specific value and even we can print the dictionary and even by particular key value we can display the value.

7. Do we able to use mixed variables like numeric and string together.

```
In [27]: r=[105,108,'mgblock']; #any data structure can be used
         print(r)

         [105, 108, 'mgblock']
```

Observation: Yes, we can use the numeric and string variables together in python just using quotes for string value and display them.