Data science in python

these are list in basic of variables and dictionaries.....

.....

In [1]:
```
print('hello embrizon technologies...')
```

```
hello embrizon technologies...
```

In [2]:
```
import os
print(os.getcwd())
```

```
C:\Users\ACER
```

In [3]:
```
x = "leaving my side"
print(x)
```

```
leaving my side
```

In [4]:
```
x
```

Out[4]:
```
'leaving my side'
```

In [5]:
```
dir()
```

Out[5]:
```
['In',
 'Out',
 '_',
 '_4',
 '__',
 '___',
 '__builtin__',
 '__builtins__',
 '__doc__',
 '__loader__',
 '__name__',
 '__package__',
 '__spec__',
 '_dh',
 '_i',
 '_i1',
 '_i2',
 '_i3',
 '_i4',
 '_i5',
 '_ih',
 '_ii',
 '_iii',
 '_oh',
 'exit',
 'get_ipython',
 'os',
 'quit',
 'x']
```

In [9]:
```
list_1 = ['string item',100]
list_a = list()
print(list_1)
type(list_1)
```

```
['string item', 100]
```

Out[9]:
```
list
```

add element

In [10]:
```
list_1.append('new element')
print(list_1)
type(list_1)
```

```
['string item', 100, 'new element']
```

Out[10]:
```
list
```

change element

In [11]:
```
list_1[1]='Changed Item'
print(list_1)
['string item', 'Changed Item', 100, 'new element']
```

```
['string item', 'Changed Item', 'new element']
```

Out[11]:
```
['string item', 'Changed Item', 100, 'new element']
```

removing element

In [12]:
```
list_1.pop(0)
print(list_1)
```

```
['Changed Item', 'new element']
```

merge list

In [13]:
```
list_2 = ['this', 'is', 'a', 'list']
list_1.append(list_2)
print(list_1)
```

```
['Changed Item', 'new element', ['this', 'is', 'a', 'list']]
```

In [14]:
```
list_3 = [1,2,3,4]
list_4 = [5,6,7,8]
list_3.insert(2,list_4)
print(list_3)
```

```
[1, 2, [5, 6, 7, 8], 3, 4]
```

accessing item

In [15]:
```
print(list_1[0])
print(list_1[-1])
```

```
Changed Item
['this', 'is', 'a', 'list']
```

In [16]:
```
print(list_1[0:3])
print(list_1[2:])
```

```
['Changed Item', 'new element', ['this', 'is', 'a', 'list']]
[['this', 'is', 'a', 'list']]
```

Dictionaries

In [17]:
```
dict_a = {'key_1':'value_1',
          'key_2':'value_2'}
dict_b = {'key_3':'value_3',
          'key_4':'value_4'}
list_a = [dict_a, dict_b, dict_a]
print(list_a)
type(list_a)
```

```
[{'key_1': 'value_1', 'key_2': 'value_2'}, {'key_3': 'value_3', 'key_4': 'val
ue_4'}, {'key_1': 'value_1', 'key_2': 'value_2'}]
```

Out[17]:
```
list
```

In [18]:
```
print(list_a[0])
type(list_a[0])
```

```
{'key_1': 'value_1', 'key_2': 'value_2'}
```

Out[18]:
```
dict
```

variables

In [3]:
```
a = ['1','2','3']
print(a)
```

```
['1', '2', '3']
```

In [4]:
```
for a in a:
    print(a)
```

```
1
2
3
```

In [5]:
```
type(a)
```

Out[5]:
```
str
```

In [7]:
```
x = a.count('3')
print(x)
```

```
1
```

In [8]:
```
print(len(a))
```

```
1
```

In [9]:
```
thislist = list(('1','2', '3'))
print(thislist)
```

```
['1', '2', '3']
```

Done by:-

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