Prac Assignment 2

Date	@January 20, 2022
Property	

Python Program to show the uses of List, Tuples and Dictionaries in Python with various Methods.

Tuple and It's Methods

```
tuple1=('hello','aniket','welcome','aniket','ciao','bye','aniket','hello','welcome','ciao') #declaration of tuple

print(tuple1.count('ciao')) #Gives Count of Entry in Tuple- How many times Entry is getting repeated

print(tuple1.count('aniket'))

print(tuple1.index('welcome')) #Gives Index of Entry

print(tuple1.index('ciao'))
```

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```
2
3
2
4
```

List and it's Methods

Append

```
li1=['hello', 'bye', 'aniket', 'google', 'internet'] #declaration of List
li2=[55,25,777,48,56,88,18]

''' Append '''
li1.append(59) #will add 59 at the end of the list
li2.append('15') #Will add '15' at the end of list

print(li1)
print(li2)
''' Note: you can add strings to a list of ints and vice versa there is no restriction and obviously same data type can be added '''
```

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```
['hello', 'bye', 'aniket', 'google', 'internet', 59]

[55, 25, 777, 48, 56, 88, 18, '15']
```

Extend

```
''' Extend '''
li1.extend([15,55,85]) #used to add more than one element at the same time
li2.extend(['Aniket','hello','vice'])

print(li1)
print(li2)
''' Note: use [] while extending -- otherwise only one arg will be taken and error will pop '''
```

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```
['hello', 'bye', 'aniket', 'google', 'internet', 59, 15, 55, 85]

[55, 25, 777, 48, 56, 88, 18, '15', 'Aniket', 'hello', 'vice']
```

Dictionary and it's Methods

Get

```
dic={"Hello":"World", "Where":"ToGo", "Here":"IsIt", "MyName":"IsBlank"} #declaration of Dictionary

print(dic.get("Hello"))       #Gives Entry Coinciding with the Key Entered
print(dic.get("MyName"))
```

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```
World

IsBlank
```

Adding Entry

```
dic['Good']='Morning'   #Adds Entry to the DEictionary-- Key and Value
print(dic)
```

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```
{'Hello': 'World', 'Where': 'ToGo', 'Here': 'IsIt', 'MyName': 'IsBlank', 'Good': 'Morning'}
```

`Zip` Another Way to Declare Dictionary by Combining Two Lists

```
keys=['Aniket', 'Rajat', 'Hetvi', 'Lavish']
values=['Tripathi', 'Khandelwal', 'Gupta', 'Yadav']
names=dict(zip(keys,values))

print(names)
```

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```
{'Aniket': 'Tripathi', 'Rajat': 'Khandelwal', 'Hetvi': 'Gupta', 'Lavish': 'Yadav'}
```

`Here We Have Created Two Lists and Then Zipped Them to make a Dictionary. We Can Check That by Using Type Method`

```
print(type(keys))       #type is a method which shows datatype of variable
print(type(values))
print(type(names))
```

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```
<class 'list'>
<class 'list'>
<class 'dict'>
```

`Update:` Merge 2 Dictionaries Together

```
dic.update(names) #merge two dictionaries with update method
print(dic)
```