Practical 2: Study and Learn List, Tuple, Set and Dictionary

Git repository link: https://github.com/Dhwani-S/Python-PIP.git

Code:

```
d1 = {"20CE140":"Dhwani", "20CE146":"Kavya", "20CE150":"Medha"}
if keys in d1:
 Enter a Key:
 Key exists
d2 = {"20CS024": "Dikshita"}
d1.update(d2)
print(d1)
{'20CE140': 'Dhwani', '20CE146': 'Kavya', '20CE150': 'Medha', '20CS024': 'Dikshita'}
#c. Write a Python program to sum all the items in a dictionary.
price = {"Pen": 10, "Eraser": 5, "Books": 200}
o/p:
Total: 215
#Sample Dictionary : {0: 10, 1: 20}
```

```
Enter a key you want to add:
Enter the corresponding value:
{'20CE140': 'Dhwani', '20CE146': 'Kavya', '20CE150': 'Medha', 'Hello': 'World'}
dic1={1:10, 2:20}
dic2={3:30, 4:40}
dic3={5:50,6:60}
dic1.update(dic2)
dic1.update(dic3)
print(dic1)
o/p:
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
tp1 = ('item1', 'item2', 'item3',4,5, 1.1);
o/p:
('item1', 'item2', 'item3', 4, 5, 1.1)
#b. Write a Python program to create a tuple with numbers and print one
tpnum = (1,2,3,4,5,6,7,8,9)
print('Number at index 1: ',tpnum[1])
o/p:
Number at index 1: 2
#c. Write a Python program to add an item in a tuple.
tpnum = tpnum + (10,)  #This will create a new tuple with original values
print(tpnum)
```

```
(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
print('String: ',str)
o/p:
String: dhwani
#e. Write a Python program to find the length of a tuple.
tp3 = ('d', 'h', 'w', 'a', 'n', 'i')
print(len(tp3))
o/p:
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st1 = \{1, 2, 3, 4, 5, 6, 7, 8\}
st1.add(9)
print("Set 1: ",st1)
st1.clear()
o/p:
 Set 1: {1, 2, 3, 4, 5, 6, 7, 8, 9}
 set()
st1 = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}
st1.remove(9)
print(st1)
o/p:
{1, 2, 3, 4, 5, 6, 7, 8}
st1 = \{0, 2, 4, 6, 8\}

st2 = \{1, 2, 3, 4, 5\}
print("intersection :", st1 & st2)
print("union: ", st1|st2)
print("difference :", st1-st2)
o/p:
```

```
intersection : {2, 4}
 union: {0, 1, 2, 3, 4, 5, 6, 8}
 difference : {0, 8, 6}
print('max: ',max(st1))
print('min: ', min(st1))
o/p:
max:
       8
min: 0
print(element)
     second
o/p:
tp = ('first','second','first','third','first','second','second')
count = 0
element = tp[0]
for i in tp:
print(element)
     second
o/p:
dic = {'1':1, '2':2,'3':3,'4':4,'5':2,'1':2}
tp = tuple(dic.values())
element = tp[0]
```

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