

ASSIGNMENT UNIT 05

02-07-2020

1) Differentiate between list, tuples and dictionary.

a) List is a mutable type meaning that lists can be modified after they have been created. A tuple is similar to a list except it is immutable. There is also a semantic difference between a list and a tuple. Tuples have structure, lists have order. A dictionary is a key value store

2) Write a python program to iterate over dictionaries using for loops

a) `d = {'python': 1, 'java': 2, 'c': 3}`

`for subject_key, value in d.items():`

`print(subject_key, 'corresponds to ', d[subject_key])`

Output:

python corresponds to 1

java corresponds to 2

c corresponds to 3

3) Write a python program to sum all the items in a dictionary

a) `lst = []`

`num = int(input('Number of elements in the list: '))`

`for n in range(num):`

`numbers = int(input('Enter number '))`

`lst.append(numbers)`

`print("Sum of elements in given list is :", sum(lst))`

Output:

Number of elements in the list: 4

Enter number 12

Enter number 12

Enter number 13

Enter number 14

Sum of elements in given list is : 51

4)Write a python script to concatenate following dictionaries to create a new one.Sample Dictionary:

```
a.dic1={1:10,2:20}
```

```
b.dic2={3:30,4:40}
```

```
c.dic3={5:50,6:60}
```

```
a)dic1={1:10,2:20}
```

```
dic2={3:30,4:40}
```

```
dic3={5:50,6:60}
```

```
dic2.update(dic3)
```

```
dic1.update(dic2)
```

```
print(dic1)
```

Output:

```
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
```

5)Write a python script to check whether a given key already exists in a dictionary

```
a)d={'A':1,'B':2,'C':3}
```

```
key=input("Enter key to check:")
```

```
if key in d.keys():
```

```
    print("Key is present and value of the key is:")
```

```
    print(d[key])
```

```
else:
```

```
    print("Key isn't present!")
```

Output:

```
Enter key to check:A
```

```
Key is present and value of the key is:
```

```
1
```