Python Assignment – Dictionaries

1. Write a Python script to check whether a given key already exists in a dictionary

```python
1  d1={1:'Shilpa',2:'Vikramaditya',3:'Preshant',4:'Neel',5:'Agastya',6:'Shreejit'}
2  t=int(input("Enter any key::"))
3  flag=0
4  for i in d1.keys():
5      if i==t:
6          flag=1
7
8  if flag==1:
9      print(t,"key is present in the dictionary")
10 else:
11     print(t,"key is not  present in the dictionary")
12
```

```
Enter any key::9
9 key is not  present in the dictionary
```

2. Write a Python program to sum all the items in a dictionary.

```python
1  d1={'Eng':45,'Maths':89,'Geo':56,'Phy':89,'Chem':78}
2  total=0
3  for key,value in d1.items():
4      total+=value
5  print("sum all the items in a dictionary:=",total)
6
```

```
sum all the items in a dictionary:= 357
```

3. Write a Python program to multiply all the items in a dictionary.

```python
1  d1={'Eng':45,'Maths':89,'Geo':56,'Phy':89,'Chem':78}
2  total=1
3  for key,value in d1.items():
4      total*=value
5  print("Multiplication of all the items in a dictionary:=",total)
6
```

```
Multiplication of all the items in a dictionary:= 1556951760
```

4. Write a Python program to sort a given dictionary by key.

```python
1  d1={'Eng':45,'Maths':89,'Geo':56,'Phy':89,'Chem':78}
2  sort_dict=dict(sorted(d1.items()))
3  for i ,value in sort_dict.items():
4      print(i,":",value)
```

```
Chem : 78
Eng : 45
Geo : 56
Maths : 89
Phy : 89
```

5. Write a Python program to get the maximum and minimum value in a dictionary.

```python
d1 = {'Eng': 45, 'Maths': 89, 'Geo': 56, 'Phy': 89, 'Chem': 78}
min_key = min(d1, key=d1.get)
print("Minium scored subject is:=",min_key)
max_key = max(d1, key=d1.get)
print("Maximum scored subject is:=",max_key)
```

```
Minium scored subject is:= Eng
Maximum scored subject is:= Maths
```