

Assignment no. 18

Q.1 Write a python program to create and print a dictionary which stores your information.(name, age, gender)

```
"""Write a python program to create and print a dictionary which stores your
information.(name, age, gender .....)"""

data={'name':'Akash', 'age':26,'gender':'Male'}
print(data)
```

Output :-

```
{'name': 'Akash', 'age': 26, 'gender': 'Male'}
```

Q.2 Write a python program to access the items of a dictionary by referring to its key name.

```
data={'name':'Akash', 'age':26,'gender':'Male',}
print(data,'\n')

#to get the value of each key
print(data['name'])
print(data['age'])
print(data['gender'])
print("\n")
```

Output :-

```
{'name': 'Akash', 'age': 26, 'gender': 'Male'}

Akash
26
Male
```

Q.3 Write a python program to get a list of the values from a dictionary.

```
data={'name':'Akash', 'age':26,'gender':'Male',}
print(data,'\n')
```

```
#to get the values using key via for loop
for key in data :
    print(data[key])

for key in data :
    print(key,data[key],sep=':')
```

Output:-

```
{'name': 'Akash', 'age': 26, 'gender': 'Male'}
```

```
Akash
26
Male
name:Akash
age:26
gender:Male
```

Q.4 Write a python program to change the value of a specific item by referring to its key name.

```
data={'name':'Akash', 'age':26,'gender':'Male',}
print(data,'\n')

# editing or changing the element from list
data['age']=25
print(data,'\n')
del data['age']
data['age']=26
print(data)
```

Output:-

```
{'name': 'Akash', 'age': 26, 'gender': 'Male'}

{'name': 'Akash', 'age': 25, 'gender': 'Male'}

{'name': 'Akash', 'gender': 'Male', 'age': 25}
PS C:\Users\Akash\Documents\python practice> █
```

Q.5 Write a python program to print all key names in the dictionary, one by one.

```
data={'Name':'Akash', 'Age':26,'Gender':'Male',}
print(data,'\n')

#to print keys name using keys() funtion
for key in data.keys():
    print(key)
```

```
#to print keys name using for loop
for key in data :
    print(key)
```

Output :-

```
{'Name': 'Akash', 'Age': 26, 'Gender': 'Male'}

Name
Age
Gender

Name
Age
Gender
PS C:\Users\Akash\Documents\python practice> 
```

Q.6 Write a python program to create a dictionary that contains three dictionaries.(nested)

```
#nested dict.
data={'person1':{'Name':'tom', 'Age':26,'Gender':'Male'},
      'person2':{'Name':'divya', 'Age':23,'Gender':'female'},
      'person3':{'Name':'harry', 'Age':25,'Gender':'Male'}}
print(data)
```

Output :-

```
{'person1': {'Name': 'tom', 'Age': 26, 'Gender': 'Male'}, 'person2': {'Name': 'divya', 'Age': 23, 'Gender': 'female'}, 'person3': {'Name': 'harry', 'Age': 25, 'Gender': 'Male'}}

PS C:\Users\Akash\Documents\python practice> 
```

Q.7 Write a python program to create three dictionaries, then create one dictionary that will contain the other three dictionaries.

```
#creating 3 different dict. then adding those into new dict.
person1={'Name':'Tom', 'Age':26,'Gender':'Male'}
person2={'Name':'Divya', 'Age':23,'Gender':'Female'}
person3={'Name':'Harry', 'Age':25,'Gender':'Male'}
```

```
people={'person 1':person1 , 'person 2':person2 , 'person 3':person3}
print(people)
```

Output:-

```
{'person 1': {'Name': 'Tom', 'Age': 26, 'Gender': 'Male'}, 'person 2': {'Name': 'Divya', 'Age': 23,
'Gender': 'Female'}, 'person 3': {'Name': 'Harry', 'Age': 25, 'Gender': 'Male'}}
PS C:\Users\Akash\Documents\python practice> █
```

Q.8 Write a python program to convert two lists into a dictionary in a way that item from list1 is the key and item from list2 is the value.

```
# conversion of lists to dictionary
name_list=["tom", "divya", "harry"]
age_list=[26, 23, 25]

print(name_list)
print(age_list)
#here i used zip which is a function use to join tow different part of list
dict_data=dict(zip(name_list,age_list))
print(dict_data)
```

Output:-

```
['tom', 'divya', 'harry']
[26, 23, 25]
{'tom': 26, 'divya': 23, 'harry': 25}
PS C:\Users\Akash\Documents\python practice> █
```

Q.9 Write a python program to merge two python dictionaries into one dictionary.

```
#merging of two dict
person1={1:'tom', 2: 'harry',3:'divya'}
person2={4:'jon', 5:'juan',1:'don'}

print(person1)
print(person2)
print("After merge")
print(**person1,**person2)#kwargs
print('\n')
```

Output:-

```
{1: 'tom', 2: 'harry', 3: 'divya'}
{4: 'jon', 5: 'juan', 1: 'don'}
After merge
{1: 'don', 2: 'harry', 3: 'divya', 4: 'jon', 5: 'juan'}
```

Q.10 Write a python program to get the key of lowest value from the dictionary.

```
sample_dict = {
'C': 92,
'Java': 66,
'Python': 85
}
```

```
person1={'India':200,'china':400,'pakistan':100,'Germany':600,'Newyork':23,
'africa':400}

print(person1,'\n')

print(min(person1.values()))
```

Output:-

```
{'India': 200, 'china': 400, 'pakistan': 100, 'Germany': 600, 'Newyork': 23, 'africa': 400}
23
PS C:\Users\Akash\Documents\python practice> █
```