

Assignment - 18 Dictionary

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

```
d1={"name":"Tarun Pal","age":20,"gender":"Male"}  
print(d1)
```

Output:-

```
{'name': 'Tarun Pal', 'age': 20, 'gender': 'Male'}
```

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

```
d1={"name":"Tarun Pal","age":20,"gender":"Male"}  
print(d1["name"],d1["age"],d1["gender"])
```

Output:-

```
Tarun Pal 20 Male
```

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

```
d1={"name":"Tarun Pal","age":20,"gender":"Male"}  
print(list(d1.values()))
```

Output:-

```
['Tarun Pal', 20, 'Male']
```

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

```
d1={"name":"Tarun Pal","age":20,"gender":"Male"}  
d1["age"]="Nationality"  
print(d1)
```

Output:-

```
{'name': 'Tarun Pal', 'age': 'Nationality', 'gender': 'Male'}
```

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

```
d1={"name":"Tarun Pal","age":20,"gender":"Male"}  
print(sorted(d1.keys()))
```

Output:-

```
['age', 'gender', 'name']
```

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

```
dict={'dict1': {'key1': 1, 'key2': 2}, 'dict2': {'key3': 3, 'key4': 4}, 'dict3': {'key5': 5, 'key6': 6}}  
print("Nested Dict is:")  
print(dict)
```

Output:-

Nested Dict is:

```
{'dict1': {'key1': 1, 'key2': 2}, 'dict2': {'key3': 3, 'key4': 4}, 'dict3': {'key5': 5, 'key6': 6}}
```

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

```
dict1 = {'key1': 1, 'key2': 2}  
dict2 = {'key3': 3, 'key4': 4}  
dict3 = {'key5': 5, 'key6': 6}  
nested_dict = {'dict1': dict1, 'dict2': dict2, 'dict3': dict3}  
print("Nested Dictionary:")  
print(nested_dict)
```

Output:-

Nested Dictionary:

```
{'dict1': {'key1': 1, 'key2': 2}, 'dict2': {'key3': 3, 'key4': 4}, 'dict3': {'key5': 5, 'key6': 6}}
```

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.

```
l1=[1,2,3,4,5,6]
l2=["Tarun","Ravi","Payal","Khushi","Subhash","Sakshi"]
d={}
i=0
for k in l1:
    d[k]=l2[i]
    i=i+1
print(d)
```

Output:-

```
{1: 'Tarun', 2: 'Ravi', 3: 'Payal', 4: 'Khushi', 5: 'Subhash', 6: 'Sakshi'}
```

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

```
d1={1:'a',2:'b',3:'c'}
d2={4:'d',5:'e',6:'f'}
mergedict={**d1,**d2}
print(mergedict)
```

Output:-

```
{1: 'a', 2: 'b', 3: 'c', 4: 'd', 5: 'e', 6: 'f'}
```

10. Write a python program to get the key of lowest value from the dictionary. sample_dict = { 'C': 92, 'Java': 66, 'Python': 85 }

```
sample_dict = {'C': 92, 'Java': 66, 'Python': 85}
lowest_value_key = min(sample_dict, key=sample_dict.get)
print("Key with the lowest value:", lowest_value_key)
```

Output:-

```
Key with the lowest value: Java
```