

Netaji Subhash Engineering College
Department of Computer Science & Engineering
B. Tech CSE 2nd Year 3rd Semester
2021-2022

Name of the Course: IT Workshop

Course Code: PCC-CS393

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Class Roll No.: 3

University Roll No.: 10900120003

Date of Experiment: 17/12/2021

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▪ **Assignment No.: 39**

Problem Statement: Write a program to create a dictionary that contains (i, i*i) such that i is an integral number between 1 and n (both included).

Python Code:

```
n = int(input("Enter the value of n: "))
squares = {i : i*i for i in range(1, n+1)}

print(squares)
```

Sample Output(s):

```
PS C:\Users\lenovo\Downloads> python -u "c:\Users\lenovo\
Enter the value of n: 7
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49}
PS C:\Users\lenovo\Downloads> █
```

▪ **Assignment No.: 40**

Problem Statement: Write a program to count the numbers of characters in a string and store them in a dictionary.

Python Code:

```
str=input("enter string : ")

f = {}
```

```

for i in str:

    if i in f:

        f[i] += 1

    else:

        f[i] = 1

print(f)

```

Sample Output(s):

```

PS C:\Users\lenovo\Downloads> python -u "c:\Users\lenovo\Downloads\q 40.py"
enter string : california
{'c': 1, 'a': 2, 'l': 1, 'i': 2, 'f': 1, 'o': 1, 'r': 1, 'n': 1}
PS C:\Users\lenovo\Downloads>

```

- **Assignment No.: 41**

Problem Statement: Write a program to create a dictionary by combining two lists 'name' for employee name and 'salary' for employee salary. Use the list 'name' as the key and 'salary' as the value of dictionary elements

Python Code:

```

names = ["Reetika", "Surbhi", "Aman", "Pogo", "Rohan"]
salaries = [5000, 8500, 5000, 4800, 10000]
dict = {}
i = 0
for name in names:
    dict[name] = salaries[i]
    i = i+1
print(dict)

```

Sample Output(s):

```

PS C:\Users\lenovo\Downloads> python -u "c:\Users\lenovo\Downloads\q 41.py"
{'Reetika': 5000, 'Surbhi': 8500, 'Aman': 5000, 'Pogo': 4800, 'Rohan': 10000}
PS C:\Users\lenovo\Downloads>

```

- **Assignment No.: 42**

Problem Statement: Write a program to input player's name (string) and runs (integer) scored for n number of players where n should be input from the keyboard. Store the player's details in a dictionary called 'cricket'. After preparing the dictionary, input the player's name and print the runs scored by the player otherwise returns '-1' if the player's name is not found

Python Code:

```
names = [ "Virat Kohli", "M.S Dhoni", "Srikar Bharat", "Shreyas  
Iyer", "Ishant Sharma"]  
print("Enter the runs scored by each player respectively(seprated by  
comma)\n", names)  
score = input()  
score = score.split(",")  
dict={}  
i = 0  
for name in names:  
    item = int(score[i])  
    dict[name] = item  
    i = i + 1  
search = input("\nWhich player score are you searching for? ")  
if search not in dict:  
    print("-1")  
else:  
    print(dict[search])
```

OUTPUT –

```
PS C:\Users\lenovo\Downloads> python -u "c:\Users\lenovo\Downloads\q 42.py"  
Enter the runs scored by each player respectively(seprated by comma)  
['Virat Kohli', 'M.S Dhoni', 'Srikar Bharat', 'Shreyas Iyer', 'Ishant Sharma']
```

- **Assignment No.: 43**

Problem Statement: Write a program to sort (ascending order) a dictionary by value.

Python Code:

```
dict1 = {"Hello": 9, "World": 1, "Python": 4}  
sorted_values = sorted(dict1.values()) # Sort the values  
sorted_dict = {}
```

```

for i in sorted_values:
    for k in dict1.keys():
        if dict1[k] == i:
            sorted_dict[k] = dict1[k]
            break

print(sorted_dict)

```

Sample Output(s):

```

PS C:\Users\lenovo\Downloads> python -u "c:\Users\lenovo\Downloads\q 43.py"
{'World': 1, 'Python': 4, 'Hello': 9}
PS C:\Users\lenovo\Downloads>

```

Assignment No.: 44

Problem Statement: Write a program to merge two dictionaries.

Python Code:

```

def Merge(dict1, dict2):
    res = dict1 | dict2
    return res

dict1 = {'x': 10, 'y': 8}
dict2 = {'a': 6, 'b': 4}
dict3 = Merge(dict1, dict2)
print(dict3)

```

Sample Output(s):

```

PS C:\Users\lenovo\Downloads> python -u "c:\Users\lenovo\Downloads\q 44.py"
{'x': 10, 'y': 8, 'a': 6, 'b': 4}
PS C:\Users\lenovo\Downloads>

```

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