**Netaji Subhash Engineering College**

**Department of Computer Science & Engineering**

**B. Tech CSE 2nd Year 3rd Semester**

**2021-2022**

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**Name of the Course: IT Workshop**

**Course Code: PCC-CS393**

**Name of the Student: Sanjoy Saha**

**Class Roll No.: 3**

**University Roll No.: 10900120003**

**Date of Experiment: 17/12/2021**

**Date of Submission: 23/12/2021**

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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):**

**Graphical user interface, text, application

Description automatically generated with medium confidence**

* **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):**

**Text

Description automatically generated**

* **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):**

**Text

Description automatically generated**

* **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 Kholi","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 –**

**Text

Description automatically generated**

* **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):**

**Text

Description automatically generated**

**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):**

**Text

Description automatically generated**

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