2023

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper: DSE-B-2P

(Programming in Python Lab)

Full Marks: 30

Set - II

Marks Distribution

Source Code :

05 Output

04 Sesional

06 Viva voce

30

Answer any one question.

1. Write a Python program to create a list (taking values from the user) and count the occurrence of each element and then create a dictionary to show the count of each element.

For example:

Input:

sample_list = [11, 45, 8, 11, 23, 45, 23, 45, 89]

Output:

 $\{11:2,45:3,8:1,23:2,89:1\}$

- 2. Write a Python program to create a class representing a queue data structure. Then create methods for the following operations:
 - (a) enqueue()
 - (b) dequeue()
 - (c) Is_empty()

3. Write a Python program to take a multi word string from user. Then perform the following operations:

(a) Count the occurrences of a given word in the given string sentence.

For example:

Enter string: orange is orange in colour

Enter word: orange

Count of the word is: 2

(b) Form a string where the first character and the last character have been exchanged.

For example:

Enter string: hello world

Modified string: dello worth

4. Write a program in Python to implement a function that reverse elements of a nested-list recursively.

As for an example—

([[1, 2], [3, [4, 5]], 6]).

Corresponding output should be – [6, [[5, 4], 3], [2, 1]].

5. Write a program in Python that checks whether any word in a given string starts and ends with a vowel. Return true if a word matches the condition; otherwise, return false.

Sample Data:

("Red Orange White") \rightarrow True

("Red White Black") → False

("abcd dkise eosksu") → True