

## SL NO. PROGRAM STATEMENT

1 WAP to convert a hour to minute and second using input(). 2

WAP to convert a temperature given in ° C to °F.

3 WAP to find the simple and compound interest.

4 WAP to Check if a year is leap year.

WAP to form the following task with the word given "UNIVERSAL"

i. Display the 'UN', 'VER' and 'SA'.

5

ii. Display the given text in reverse order using negative indexing.

6 WAP to check find the eligibility of a student for being accepted to IIT -Bombay.

(The cut-out marks is 99.9%)

WAP to add the elements of the two lists.

list1=[1,3,5,7,9,11,13,15]

list2=[2,4,6,8,10,12,14,16]

i. Find the maximum number in the new list.

ii. Find the minimum number in the new list.

7

iii. Reverse the list.

iv. Sum the values in the list.

v. Display the elements from 5th to 10th.

vi. Delete the 10th element in the list. vii.

Arrange the list in ascending order.

viii.Add 'Total' in the list.

8 Write a program to take a string and print its uppercase, lowercase value. 9

Wtite a program to find the perimeter of a rectangle.

10 Wtite a program to find the greatest no out of 3 given numbers.

Write a program to add the elements of the two lists and perform the following operations:

Given data: list1 = [1, 3, 5, 7, 9, 11, 13, 15]

list2 = [2, 4, 6, 8, 10, 12, 14, 16]

Perform the following tasks on the new list created by adding elements of list1 and list2:

1. Find the maximum number in the new list.

2. Find the minimum number in the new list.

11

3. Reverse the list.

4. Sum the values in the list.

5. Display the elements from the 5th to the 10th.

6. Delete the 10th element in the list.

7. Arrange the list in ascending order.

8. Add the string 'Total' to the list

Write a program to calculate the mean, mode, and median for the given data:

12

Sample data: y = [10, 15, 10, 20, 25, 30, 10, 25, 20, 30, 25, 15, 20, 10, 30, 25, 15, 20]

Mrs. Watson is analyzing the test scores of her students for a particular subject. The goal is to summarize the performance of the class by calculating key statistics. She has the scores of all students and need to determine the average score, the median score, and the most common score. This analysis will help her understand the overall performance and identify areas for improvement.

test\_scores = [85, 92, 88, 75, 90, 88, 92, 76, 84, 85, 90, 78, 92, 88, 89, 85, 90, 78, 76, 84, 92, 88, 75, 90, 92, 88, 78,

13

92, 85, 89]

Write a Python program to:

- i) Calculate the mean score.
- ii) Determine the median score.
- iii) Identify the mode of the test scores.

You are working as a data analyst for a retail company. The company wants to understand customer purchase behavior to make informed decisions on inventory and marketing strategies. You have been provided with a list of daily sales amounts (in dollars) for the past month. Your task is to analyze this data to find key statistics that can help the company understand average sales, typical sales amount, and the most common sales amount.

14

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daily_sales = [250, 300, 150, 400, 600, 350, 500, 450, 200, 300, 400, 450, 600, 700, 550, 300, 400, 450, 300, 400,
600, 700, 350, 500, 250, 300, 450, 600, 700, 550]
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Write a Python program to:

- i) Calculate the mean sales amount.
- ii) Determine the median sales amount.
- iii) Identify the mode of the sales amounts.

SL NO. PROGRAM STATEMENT 1

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