### **Scenario:** A user is required to enter a valid number in a form, but users sometimes input invalid data. Write logic to repeatedly prompt the user until they enter a valid integer.

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Logic:

1.get the input from user sss

2.set the condition to check to number

3.by using for loop we can set the attempt.

### **Scenario:** A data analysis tool processes a list of numbers and needs to identify the most frequently occurring value. Write logic to find the most frequently occurring number in a given list.

### **Scenario:** A text-processing application needs to compare words and check if they are anagrams (contain the same letters in a different order). Write logic to determine whether two given strings are anagrams.

### **Scenario:** A speech analysis program needs to count the number of vowel sounds in a given input. Write logic to count the number of vowels in a given string.

**Logic**

1.we have to check the vowels letter with given input

2.its given input we have to increase the count.

### **Scenario:** A text-editing software includes a feature to reverse the order of words in a sentence for stylistic effects. Write logic to reverse the order of words in a sentence while keeping the words themselves intact.

Logic.

1.get a input

2.then apply the reverse logic

3.then print

### **Scenario:** A missing number is detected in a sequence of values stored in a database. Write logic to find the missing number in a list containing n-1 numbers from 1 to n.

### **Scenario:** An ATM machine processes withdrawal requests and needs to ensure that users cannot withdraw more than their account balance. Write logic to allow a withdrawal only if the balance is sufficient.

### **Scenario:** A system needs to verify whether a given dataset contains duplicate entries. Write logic to check whether a given list contains duplicate values.

**Logic :**

1.Get the input:

2.we can use the set function to remove the duplicates.(set())

### **Scenario:** A digital calculator includes a feature to sum the digits of a number for verification purposes. Write logic to calculate the sum of all digits in a given integer.

**Logic:**

1.get the two numbers from the user :

2.ope=+,-.\*,/

2. choose the operand condition ope==”+”

3.if the the condition satisfied

5.print(add(num1 + num2 ))

### **Scenario:** A language-learning app wants to verify whether a given sentence is a pangram (contains every letter of the alphabet at least once). Write logic to check if a given sentence is a pangram.

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