### **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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### **Ask input from user**

### **If input<0:**

### **Print (“invalid input”)**

### **Else: print(“valid input”)**

### **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.

1. **Read given list**
2. **Compare list and frequently occurring value**

### **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.

1. **Anagram = “AMMA”**
2. **If Anagram==Anagram[::-1]:**
3. **Print they are anagram**
4. **Else: print(they are not anagram)**

### **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.

1. **Vowels = ”aeiou”**
2. **Num=Vowels[“a”]**
3. **For I in input string:**
4. **If i==Num:**
5. **Numbers=len(vowels)**
6. **Print(numbers)**

### **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.

1. **Read the given sentence**
2. **Sentence\_reversed=reversed(sentence\_given)**
3. **Print(sentence\_reversed)**

### **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.

1. **Ask withdrawal amount to user**
2. **If amount<balance:**
3. **Print(insufficient balance)**
4. **Else: print (proceed to withdrawal)**

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

1. **Read dataset**
2. **Import pandas as pd**
3. **Read pd.dataset**
4. **Eliminate\_duplicate=list(set(dataset))**
5. **Print (Eliminat\_duplicate)**

### **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.

1. **Read given integer**
2. **Split the integer**
3. **Total =sum(integer)**
4. **Print (total)**

### **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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