

Name: Tankeko, Ma. Bea Angela L.
Section: CPE 010-CPE21S1

Date: 30/08/2024
Instructor: Engr. Maria Rizette H. Sayo

PRACTICE PROBLEM

Design an algorithm and the corresponding flowchart for adding the test scores as given below if the number is even:

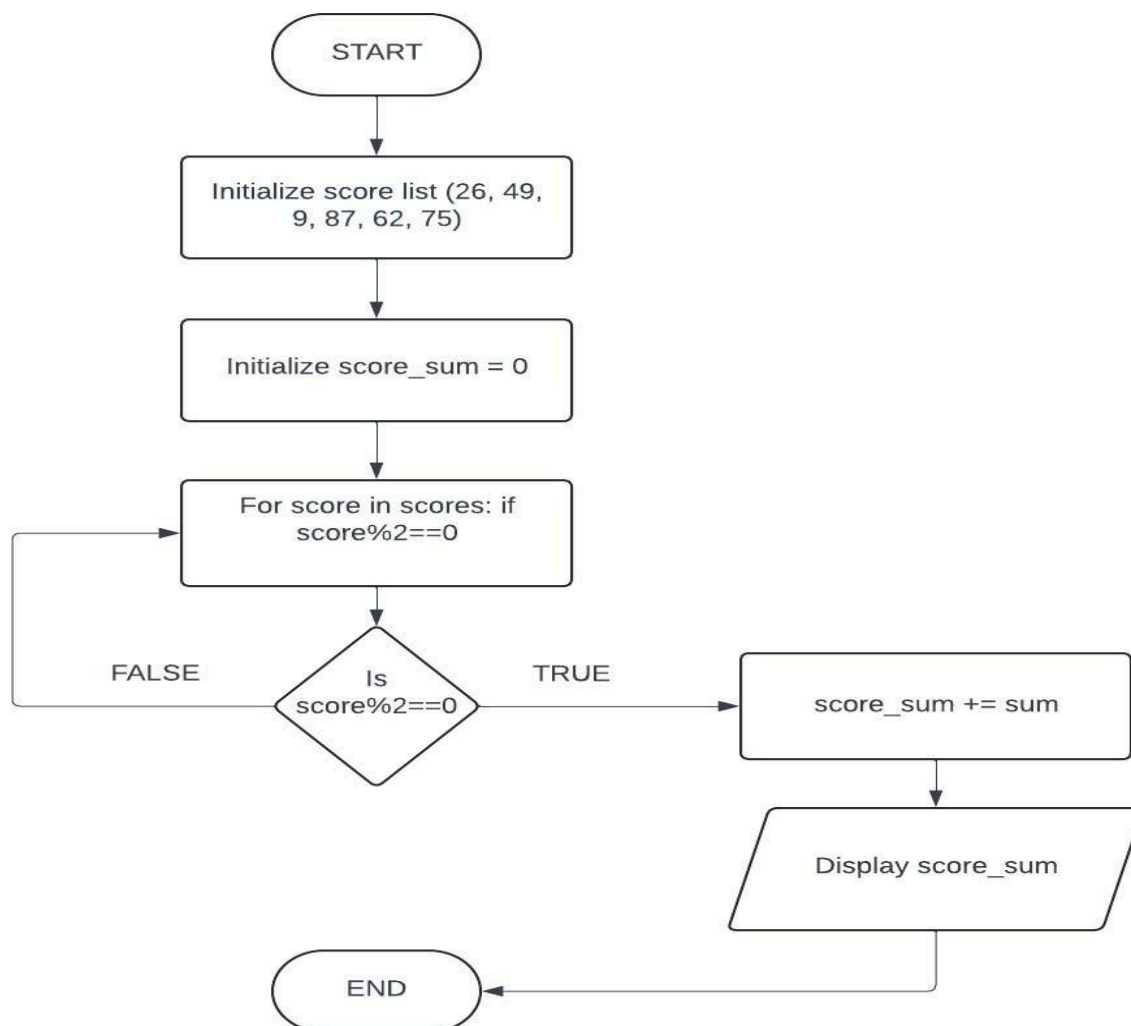
26, 49, 9, 87, 62, 75

Translate the algorithm to a python program using Google Colab)

ALGORITHM:

1. Initialize the provided scores inside a list (26, 49, 9, 87, 62, 75)
2. Initialize score_sum (even numbers will be stored and added here)
3. Divide each item in the list by two (via modulo)
4. If the divided number returns 0 remainder, add the number, repeat until last number is reached
5. Display the total sum.

FLOWCHART



CODE (Python):

```
scores= [26,49,9,87,62,75];  
score_sum = 0;  
for score in scores:  
    if score%2==0:  
        score_sum += score  
print("The total sum of all even numbers provided is equals to:", score_sum);
```

Output:

```
In [13]: runfile('C:/Users/TIPQC/.spyder-py3/  
temp.py', wdir='C:/Users/TIPQC/.spyder-py3')  
The total sum of all even numbers provided is  
equals to: 88
```


CODE (Python):

```
scores= [26,49,9,87,62,75];  
score_sum = 0;  
for score in scores:  
    if score%2==0:  
        score_sum += score  
print("The total sum of all even numbers provided is equals to:", score_sum);
```

Output: