TCS NQT Coding Question 2022 – September Day 1 – Slot 1

Problem Statement – An automobile company manufactures both a two wheeler (TW) and a four wheeler (FW). A company manager wants to make the production of both types of vehicle according to the given data below:

- 1st data, Total number of vehicle (two-wheeler + four-wheeler)=v
- 2nd data, Total number of wheels = W

The task is to find how many two-wheelers as well as four-wheelers need to manufacture as per the given data.

Example :

Input :

- 200 -> Value of V
- 540 -> Value of W

Output :

- TW =130 FW=70

Explanation:

130+70 = 200 vehicles

(70*4)+(130*2)= 540 wheels

Constraints :

- 2<=W
- W%2=0
- V<W

Print “INVALID INPUT” , if inputs did not meet the constraints.

The input format for testing

The candidate has to write the code to accept two positive numbers separated by a new line.

- First Input line – Accept value of V.
- Second Input line- Accept value for W.

The output format for testing

- Written program code should generate two outputs, each separated by a single space character(see the example)
- Additional messages in the output will result in the failure of test case

```
import java.util.*;
public class Solution
{
    public static void main(String[] args)
    {
              Scanner sc=new Scanner(System.in);
              int v=sc.nextInt();
              int w=sc.nextInt();
              float res=((4*v)-w)/2;
              if(w>=2 && (w%2==0) && v<w )
                System.out.println("TW= "+(int)(res)+" FW= "+(int)(v-res));
              else
                 System.out.println("INVALID INPUT");
    }
}
```