TCS NQT
Q. 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) $=\mathrm{v}$
2nd data, Total number of wheels $=\mathrm{W}$
The task is to find how many two-wheelers as well as four-wheelers need to manufacture as per the given data.
C Program:

```
#include <stdio.h>
int main ()
{
    int v, w;
    v=100;
    w=300;
    int tw = ((4 * v) - w) / 2;
    if ((w & 1) || w < 2 || w <= v)
        {
        printf( "Invalide Input");
        return 0;
        }
printf("TW = %d ",tw);
printf("n");
printf("FW = %d",v-tw);
```

Output:

$$
\begin{aligned}
& \mathrm{TW}=50 \\
& \mathrm{FW}=50
\end{aligned}
$$

C++ Program:

```
#include <iostream>
using namespace std;
int main ()
{
    int v, w;
    v=100;
    w=300;
    //cin >> v >> w;
    float tw = ((4 * v) - w) / 2;
    if ((w & 1) || w< 2 || w <= v)
        {
            cout << "Invalide Input";
            return 0;
        }
cout << "TW=" << tW << " " << "FW=" << v - tW;
```

\}

Output:
TW=50 FW=50

