

## 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)=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.

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( "Invalid Input");
        return 0;
    }
    printf("TW = %d ",tw);
    printf("\n");
    printf("FW = %d",v-tw);
}
```

Output:

TW = 50

FW = 50

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