Week-07 Program-02

Write a C program to find the sum of all elements of each row of a matrix.

Example: For a matrix

\[
\begin{pmatrix}
4 & 5 & 6 \\
6 & 7 & 3 \\
1 & 2 & 3 \\
\end{pmatrix}
\]

The output will be

15
16
6

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>12</td>
</tr>
</tbody>
</table>
The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```c
#include <stdio.h>
int main()
{
    int matrix[20][20];
    int i,j,r,c;
    scanf("%d",&r); //Accepts number of rows
    scanf("%d",&c); //Accepts number of columns
    for(i=0;i<r;i++) //Accepts the matrix elements from the test case
    {
        for(j=0;j<c;j++)
        {
            scanf("%d", &matrix[i][j]);
        }
    }
    /*Complete the code to print the sum of each rows. Use the printf() st: */
    printf("%d\n",sum); Where sum is the sum of a row.
}
*/
int sum;
for(i=0;i< r;i++)
{
    sum=0;
    for(j=0;j< c;j++)
    {
        // printf("%d\t",matrix[i][j]);
        sum += matrix[i][j];
    }
    printf("%d\n",sum);
}