Question no : 8.4

Date : 19-11 -2024

Question : Find the sum of each row and column of given matrix

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Semester : 1

Programme : BSC(DA)

#include <stdio.h>

int main()

{

int r,c,i,j;

printf("Enter the number of rows: ");

scanf("%d", &r);

printf("Enter the number of columns: ");

scanf("%d", &c);

int a[r][c];

printf("Enter the elements of the matrix:\n");

for ( i = 0; i < r; i++)

{

for ( j = 0; j < c; j++)

{

scanf("%d", &a[i][j]);

}

}

printf(" Matrix :\n");

for(i=0;i<r;i++)

{

for(j=0;j<c;j++)

{

printf("%d\t",a[i][j]);

}

printf("\n");

}

printf("\nSum of each row:\n");

for ( i = 0; i < r; i++)

{

int rs= 0;

for ( j = 0; j < c; j++)

{

rs+= a[i][j];

}

printf("Row %d sum = %d\n", i + 1, rs);

}

printf("\nSum of each column:\n");

for ( j= 0; j < c; j++)

{

int cs = 0;

for (i = 0; i < r; i++)

{

cs += a[i][j];

}

printf("Column %d sum = %d\n", j + 1, cs);

}

return 0;

}

**Output**

