C. Program to find row sum and column sum

Algorithm :-

Step 1 : Start

Step 2 : input m, n

Step 3 : initialize sum = 0

Step 4 : Enter the co-efficient of the matrix

   4.1 : for(i=0; i<m; i++)

   4.2 : for(j=0; j<n; j++)

   4.3 : read array a[i][j]

   4.4 : repeat 4.1, 4.2, until the condition becomes false

Step 5 : for(i=0; i<m; i++)

   5.1 : for(j=0; j<n; j++)

   5.2 : sum = sum + array[i][j]

   5.3 : repeat 5.1 & 5.2 untill condition becomes false

   5.4 : print row sum

   5.5 : sum = 0

   5.6 : repeat step 5 untill condition becomes false

   5.7 : sum = 0

Step 6 : for(j=0; j<n; j++)

   6.1 : for(i=0; i<m; i++)

   6.2 : sum = sum + array[i][j]

   6.3 : repeat 6.1 & 6.2 untill condition becomes false

   6.4 : print column sum, sum = 0

   6.5 : repeat step 6 untill condition becomes false

Step 7 : Stop.

Flowchart :-

Start

↓

input m,n

↓

Enter the co-efficient of matrix

↓

for (i=0; i<m; i++) ──── False

↓ True

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

↓ True

input array [i][j]

↓

False ── for (i=0; i<m; i++)

↓ True

for (j=0; j<n; j++) ──── False

↓ True

sum = sum + array[i][j]

sum = 0

Print row sum

↓

sum = 0

False ── for (j=0; j<m; j++)

↓ True

for (i=0; i<m; i++) ──── False

↓ True

sum = sum + array[i][j]

print coloumn sum

↓

Stop

sum = 0