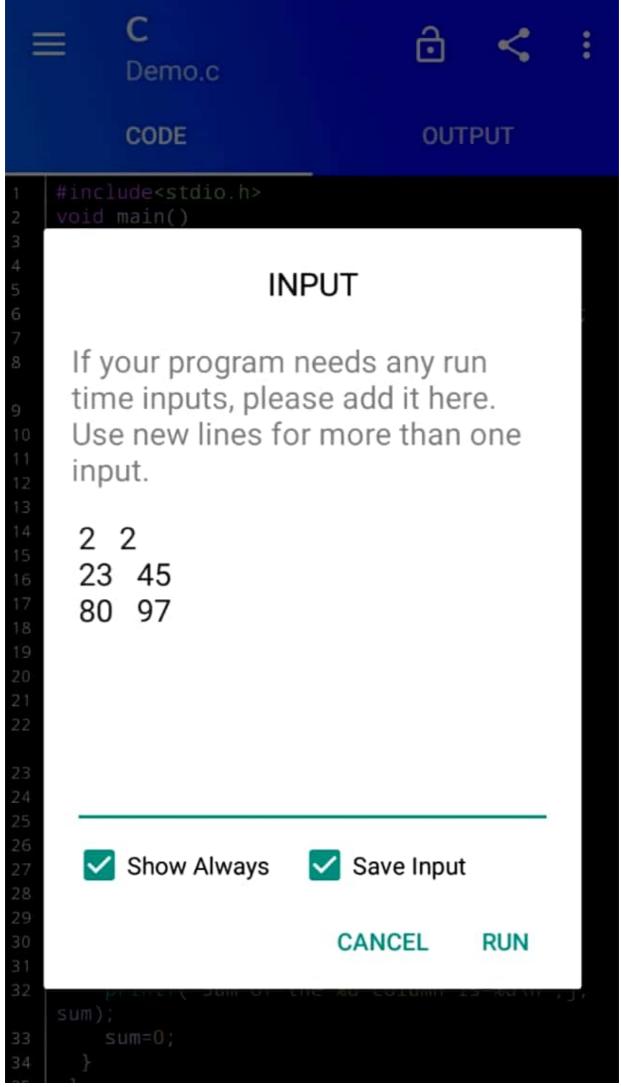```c
#include<stdio.h>
void main()
{
    static int array[10][10];
    int i,j,m,n,sum=0;
    printf("Enter the order of the matrix\n");
    scanf("%d%d",&m,&n);
    printf("Enter the co-efficients of the
matrix \n");
    for(i=0;i<m;++i)
    {
        for(j=0;j<n;++j)
        {
            scanf("%d",&array[i][j]);
        }
    }
    for(i=0;i<m;++i)
    {
        for(j=0;j<n;++j)
        {
            sum=sum+array[i][j];
        }
        printf("Sum of the %d row is
=%d\n",i,sum);
        sum=0;
    }
    sum=0;
    for(j=0;j<n;++j)
    {
        for(i=0;i<m;++i)
        {
            sum=sum+array[i][j];
        }
        printf("Sum of the %d column is=%d\n",j,
sum);
        sum=0;
    }
```

```
1  #include<stdio.h>
2  void main()
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31
32       sum);
33       sum=0;
34     }
```

INPUT

If your program needs any run time inputs, please add it here. Use new lines for more than one input.

2 2
23 45
80 97

✓ Show Always   ✓ Save Input

CANCEL   RUN

Enter the order of the matrix
Enter the co-efficients of the
matrix
Sum of the 0 row is =68
Sum of the 1 row is =177
Sum of the 0 column is=103
Sum of the 1 column is=142

Write a C Program to implement each sum of each in a matrix

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Algorithm :-

Step 1 :- Start

Step 2 :- Input m,n

Step 3 :- for (i=0; i<n; ++i)
      for (j=0; j<m; ++j)
      input array [i][j]

Step 4 :- for (i=0; i<n; ++i)
      for (j=0; j<m; ++j)
      Sum= Sum+ a[i][j]
      output row Sum

Step 5 :- for (j=0; j<n; ++j)
      for (i=0; i<n; ++i)
      Sum = Sum +a [i][j]
      output column Sum

Step 6 :-> Stop.

flowchart

```
                    ┌─────────┐
                    │  Start  │
                    └─────────┘
                         ↓
  false          /Input m,n /──────→/ Enter the order of matrix /
    ┌──────────< for (i=0; i<n; i++) >
    │   false      ↓ True
    │   ┌────────< for (j=0; j<n; j++) >
    │   │             ↓ true
    │   │      / output a[i][j] /
    │   └──────────────┘
    │
    └──────────────────↓
  False         < for (i=0; i<n; i++) >──────────┐
    ┌──────────<                     >
    │             ↓ true
    │        ┌─────────────┐
    │        │  Sum = 0    │
    │  false └─────────────┘
    │   ┌────< for (j=0; j=n; ++j) >
    │   │        ↓
    │   │  ┌──────────────────────┐
    │   │  │ Sum = Sum + a[i][j]  │
    │   │  └──────────────────────┘
    │   │        ↓
    │   └──/ output Row Sum /──────┘
    │
    └──────────────↓
  False      < for (j=0; j<n; j++) >──────────┐
    ┌───────<                      >
    │           ↓
    │     ┌─────────────┐
    │     │  Sum = 0    │
    │ False└─────────────┘
    │  ┌───< for (i=0; i<n; i++) >
    │  │       ↓
    │  │  ┌──────────────────────┐
    │  │  │ Sum = Sum + a[i][j]  │
    │  │  └──────────────────────┘
    │  │       ↓
    │  └──/ output column Sum /───┘
    │
    └───────────↓
           ┌─────────┐
           │  STOP   │
           └─────────┘
```