

C-58 > Tow Dimensional Array

20-Array - Program 3

* Program to print sum of individual rows and Columns of a matrix:

void main!)

int i,j, a[3][3], SR, SC, DR=0.

pounty ("Enter 3x3 Moderin Elements: \n").

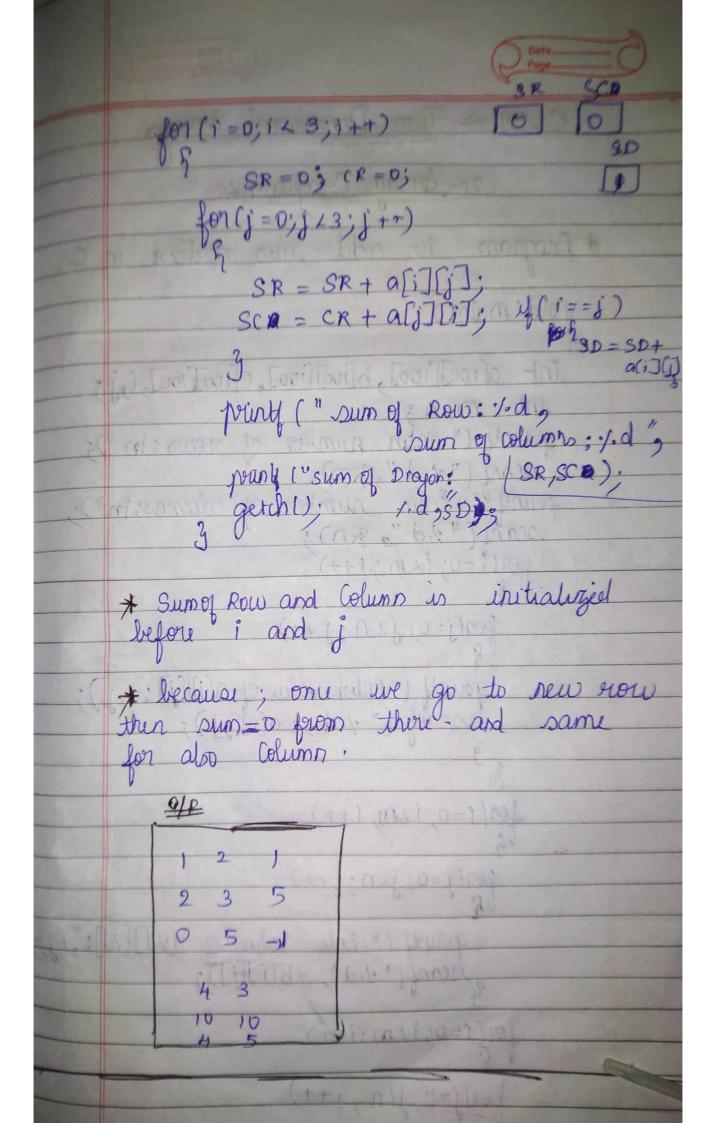
for(i=0;i23;i++)

for(j=0; j23;j++)

for(j=0;j23;j++)

grunty("/d1t", a[i][j]);

grunty("/d1t", a[i][j]);



CODE 1:

```
1
      #include <stdio.h>
  2
      #include <stdlib.h>
      #define N 100
  3
      /** 3 - 2D ARRAY PROGRAM **/
  4
    /** READ A MATRIX AND PRINT SUM OF INDIVIDUAL ROWS & COLUMNS **/
  5
  6
      int main()
  7
    □ {
           int a[N][N], m, n, i, j, row_sum, col_sum, dig_sum=0;
  8
  9
           printf("Enter number of rows:");
 10
           scanf("%d", &m);
 11
           printf("Enter number of columns:");
 12
           scanf ("%d", &n);
 13
 14
           for (i=0; i<m; i++)</pre>
 15
 16
            for (j=0; j<n; j++)
 17
 18
            printf("Enter value of a[%d][%d]:",i,j);
 19
             scanf("%d", &a[i][j]);
 20
 21
23
           printf("\nMatrix is:\n");
           for (i=0; i<m; i++)</pre>
2.4
25
26
             for (j=0; j<n; j++)
27
28
              printf("%d\t",a[i][j]);
29
30
             printf("\n");
31
JZ
33
          for (i=0; i<m; i++)
34
35
           row sum=0;
36
           col sum=0;
37
           for (j=0; j<n; j++)</pre>
38
39
            row_sum=row_sum+a[i][j];
40
            col_sum=col_sum+a[j][i];
41
            if(i==j)
42
             dig_sum=dig_sum+a[i][j];
43
           printf("Sum of row:%d, Sum of Column:%d\n", row sum, col sum);
44
45
46
          printf("\nSum of diagonals:%d\n",dig sum);
47
48
       getch();
49
```

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■ "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAMS\PART 5_Jennys Lectures\PART 4_JENNYS LECTURE_ARRAYS\2_TWO DIMENSIONAL A...
Enter number of rows:3
Enter number of columns:3
Enter value of a[0][0]:1
Enter value of a[0][1]:2
Enter value of a[0][2]:3
Enter value of a[1][0]:1
Enter value of a[1][1]:2
Enter value of a[1][2]:3
Enter value of a[2][0]:1
Enter value of a[2][1]:2
Enter value of a[2][2]:3
Matrix is:
Sum of row:6, Sum of Column:3
Sum of row:6, Sum of Column:6
Sum of row:6, Sum of Column:9
Sum of diagonals:6
```