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[■] MOD11.C 1=[↑↓]

```
#include<stdio.h>
int main()
{
    int array1[10][10],i,j,m,n,sum = 0;
    printf("Enter no. of rows :");
    scanf("%d", &m);
    printf("\nEnter no. of cols :");
    scanf("%d",&n);
    printf("\nEnter values to the matrix :\n");
    for (i = 0; i < m; i++)
    {
        for (j = 0; j < n; j++)
        {
            printf("\nEnter a[%d][%d] value :",i,j);
            scanf("%d", &array1[i][j]);
        }
    }
    printf("\nThe Diagonals elements of a matrix are :\n");
    if(m==n)
    {
        for(i=0;i<m;i++)
```

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[■] MOD11.C 1=[↑↓]

```
    for(i=0;i<m;i++)
    {
        for(j=0;j<n;j++)
        {

            if(i==j){
                printf("%d", array1[i][j]);
                                sum+=array1[i][j];
            }

            printf("\n");
        }
        printf("Sum of diagona elements: %d",sum);
    }
else
{
    printf("\nMatrix is not a Square Matrix.");
}

return 0;
}
```

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Enter values to the matrix :

Enter a[0][0] value :1

Enter a[0][1] value :2

Enter a[0][2] value :3

Enter a[1][0] value :4

Enter a[1][1] value :5

Enter a[1][2] value :6

Enter a[2][0] value :7

Enter a[2][1] value :8

Enter a[2][2] value :9

The Diagonals elements of a matrix are :

1

5

9

Sum of diagonal elements: 15Enter no. of rows :_