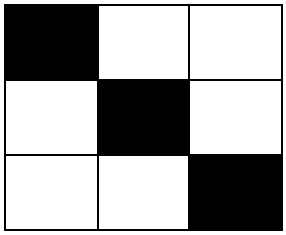
//WAP to print the sum of left-diagonal elements in a square bracket



```
#include<stdio.h>                  //includes standard I/O Header file
int main()                         //starts main function
{
   int a[10][10];                  //declare an array of integer type
   int i,j,sum=0,m,n;              //declare i,j for referencing rows and columns of an
                                   array, m , n for defining no.of rows & columns, take sum=0
                                   initially.
   puts("enter No of rows and columns");
   scanf("%d %d",&m,&n);           //input no. of rows and columns
   printf("Enter elements of Array [%d ][%d] \n",m,n);
   for(i=0;i<m;i++)                //define a for loop for referencing rows of an array
   {
   for(j=0;j<n;j++)                //define a for loop for referencing columns of an array
   scanf("%d",&a[i][j]);           //input elements of an array
   }
   printf("Array:\n");             //statement at the start of printing elements of an array
   for(i=0;i<m;i++)                //define a for loop for referencing rows of an array
   {

   for(j=0;j<n;j++)                //define a for loop for referencing columns of an array
   printf("%d ",a[i][j]);          //prints elements of particular row and column
   printf("\n");                   //this statement gives one line between each array
   }
   for(i=0;i<m;i++)                //define a for loop for referencing rows of an array
   for(j=0;j<n;j++)                //define a for loop for referencing columns of an array
   {
      if(i==j)                     //in diagonal row and column index are equal.
      sum=sum+a[i][j];             //sum the elements having equal row and column index
   }
 printf("sum of diagonal elements=%d",sum); //prints the sum of diagonal elements
}
```