print the sum of all diagonal elements.

```
#include <stdio.h>

void main()
{
  int arr1[3][3],i,j;
      printf("\n\nRead a 2D array of size
3x3 and print the matrix :\n");

printf("----------------------------------------
--\n");
   /* Stored values into the array*/
         printf("Input elements in the
matrix :\n");
           for(i=0;i<3;i++)
            {
                for(j=0;j<3;j++)
                   {
                          printf("element -
[%d],[%d] : ",i,j);

scanf("%d",&arr1[i][j]);
                                      }
                                       }
 printf("\nThe matrix is : \n");
  for(i=0;i<3;i++)
   {
        printf("\n");
```

```
    {
        printf("\n");
            for(j=0;j<3;j++)
                    printf("%d\t",arr1[i][j]);
                     }
                      printf("\n\n");
                     }
```

OUTPUT:element - [0],[0] : 1

element - [0],[1] : 2

element - [0],[2] : 3

element - [1],[0] : 4

element - [1],[1] : 5

element - [1],[2] : 6

element - [2],[0] : 7

element - [2],[1] : 8

element - [2],[2] : 9

The matrix is :

1 2 3
4 5 6
7 8 9