```
1/* Aim : Write a program in java to perform sum of diagonal elements of a matrix.
 5 package pkg3;
 6import java.util.*;
 7 public class DiagonalAddition {
      public static void main(String[] args) {
9
           System.out.println("~A PROJECT BY KASHISH GUPTA");
10
           int set[][] = new int[3][3];
11
           int i,j;
12
           int d1=0, d2=0;
13
           Scanner sc =new Scanner(System.in);
14
           System.out.println("Start the program : ");
15
           System.out.println("Enter the 3x3 matrix:");
16
           for(i=0;i<3;i++)</pre>
17
18
               for(j=0;j<3;j++)</pre>
19
20
                   set[i][j]=sc.nextInt();
21
22
23
           System.out.println("The 3X3 matrix is : ");
24
           for (i=0; i<3; i++)
25
26
               for (j=0; j<3; j++)</pre>
27
28
                   System.out.print(set[i][j]+"\t");
29
30
                   System.out.println(" ");
31
32
           for (i=0 ; i<3 ; i++)</pre>
33
34
               for (j=0 ; j<3 ; j++)
35
               {
36
                   if(i==j)
37
                        d1 = d1 + set[i][j];
38
39
40
           for (i=0 ; i<3 ; i++)</pre>
41
42
                   for (j=0 ; j<3 ; j++)</pre>
43
                   {
44
                        if(i+j==2)
45
                            d2 = d2 + set[i][j];
46
                   }
47
           System.out.println("The sum of first diagonal is : "+d1);
48
49
           System.out.println("The sum of second diagonal is : "+d2);
50
      }
51 }
52
```