```java
public class Main{
public static int linearSearch( int[] arr,int key)
{
    for(int i=0;i<arr.length;i++){
        if(arr[i]==key){
            return i;
        }
    }
    return -1;
}
public static void main(String[] args) {
    int []a={10,20,30,50,70,90};
    int key=50;

        int index=linearSearch(a,key);
    if(index==-1)
    System.out.println("Not found");
    else
    System.out.println(key+"is found at index:"+index);

};
```

input

50is found at index:3

...Program finished with exit code 0
Press ENTER to exit console.▯

```java
import java.util.Scanner;
public class Main{
public   int linearSearch( int[] arr,int n,int key)
{
    for(int i=0;i<arr.length;i++){
        if(arr[i]==key){
            return i;
        }
        }
        return -1;
}
public static void main(String[] args) {
    Main m=new Main();
    int n;
    int key=50;
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the number of elements:");
    n=sc.nextInt();
    int a[]=new int[n];
    System.out.println("Enter elements");
    for(int i=0;i<n;i++)
    {
        a[i]=sc.nextInt();
    }
        int index=m.linearSearch(a,n,key);
    if(index==-1)
        System.out.println("Not found");
```

```java
        if(arr[i]==key){
            return i;
        }
    }
    return -1;
}
public static void main(String[] args) {
    Main m=new Main();
    int n;
    int key=50;
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the number of elements:");
    n=sc.nextInt();
    int a[]=new int[n];
    System.out.println("Enter elements");
    for(int i=0;i<n;i++)
    {
        a[i]=sc.nextInt();
    }

        int index=m.linearSearch(a,n,key);
    if(index==-1)
    System.out.println("Not found");
    else
    System.out.println(key+"is found at index:"+index);

    }
    ;
```

```
Enter the number of elements:
5
Enter elements
6
7
8
9
10
Not found


...Program finished with exit code 0
Press ENTER to exit console.[]
```

```java
class TwodimensionalLoop{
    public static void main(String args[])
{
    int[][] a={{10,20},{30,40},{50,60}};//declaration and initializatio
    System.out.println("Two dimensional array elements are");
    for(int i = 0; i < 3; i++)
    {
        for(int j = 0; j < 2; j++)
        {
            System.out.println(a[i][j]);
        }
    }
}
}
```

input

```
Error: Could not find or load main class main
Caused by: java.lang.ClassNotFoundException: main


...Program finished with exit code 1
Press ENTER to exit console.
```

```java
import java.util.Scanner;
class TwodimensionalLoop{
        public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);
    int[][] a=new int[4][3];
    int i,j;
    System.out.println("Enter array elements");
     for(i=0;i<4;i++)
    {
        for( j=0;j<3;j++)
        {
            a[i][j]=sc.nextInt();
        }

    System.out.println("Two Dimensional array elements are:");
    for( i=0;i<4;i++)
    {
        for( j=0;j<3;j++)
        {
            System.out.print(a[i][j]);
```

input

```
Error: Could not find or load main class main
Caused by: java.lang.ClassNotFoundException: main


...Program finished with exit code 1
Press ENTER to exit console.
```

```java
import java.util.Scanner;
class TwodimensionalLoop{
    public static void main(String[] args)
{
    String[][] salutation={{"Mr.","Mrs.","Ms."},{"Kumar"}};
    System.out.println(salutation[0][0]+" "+salutation[1][0]);
    System.out.println(salutation[0][1]+" "+salutation[1][0]);
    System.out.println(salutation[0][2]+" "+salutation[1][0]);
}
}
```

```
Error: Could not find or load main class main
Caused by: java.lang.ClassNotFoundException: main


...Program finished with exit code 1
Press ENTER to exit console.
```

```java
import java.util.Scanner;
class TwodimensionalLoop{
        public static void main(String[] args)
{
    int [][] board=new int[3][3];
    int i,j;
   Scanner sc=new Scanner(System.in);
   System.out.println("Enter array elements");
   for(i=0;i<board.length;i++)
   {
       for(j=0;j<board[i].length;j++){
       board[i][j]=sc.nextInt();
}
}
   System.out.println("Array elements are:");
   for(i=0;i<board.length;i++)
   {
       for(j=0;j<board[i].length;j++){
       System.out.print(board[i][j]+" ");
}
    System.out.println();
```

ror: Could not find or load main class main
used by: java.lang.ClassNotFoundException: main

.Program finished with exit code 1
ess ENTER to exit console.

```java
1   import java.util.*;
2   class TwodimensionalLoop{
3        public static void main(String[] args)
4   {
5      int [][] board=new int[3][3];
6      int i,j;
7     Scanner sc=new Scanner(System.in);
8     System.out.println("Enter array elements");
9     for(i=0;i<board.length;i++)
10    {
11        for(j=0;j<board[i].length;j++){
12        board[i][j]=sc.nextInt();
13    }
14    }
15    System.out.println(Arrays.deepToString(board));
16  }
17  }
```

input

```
Error: Could not find or load main class main
Caused by: java.lang.ClassNotFoundException: main


...Program finished with exit code 1
Press ENTER to exit console.
```

```java
class TwodimensionalLoop{
        public static void main(String[] args)
  {
      int [] board={1,2,3,4,5};
      int i,j,sum=0;
      double avg;
    System.out.println("Enter array elements");
    for(i=0;i<board.length;i++)
    {
        sum+=board[i];
    }
    avg=sum/board.length;

    System.out.println("Sum is"+sum);
    System.out.println("Avg is"+avg);
}
}
```