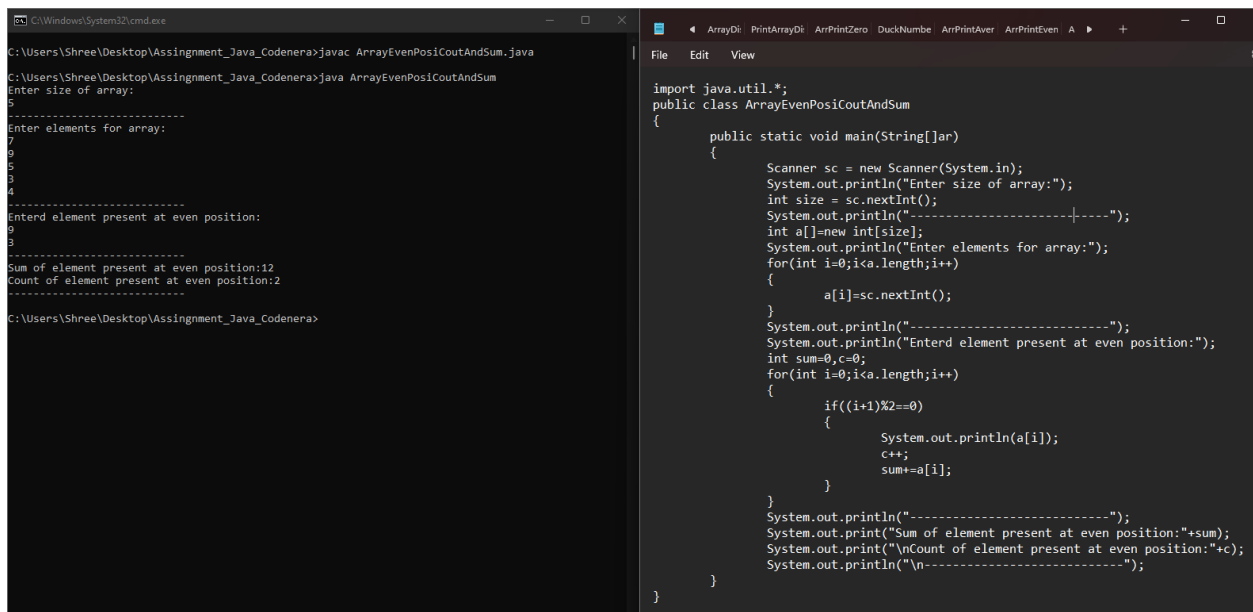


Assignment No:-14

Name:-Suryawanshi Sangramsingh Sambhaji

Batch: - Delta - DCA (Java) 2024 Date:-21/5/2024

1. Write a program enter an array and find the sum and count of element present at even position.

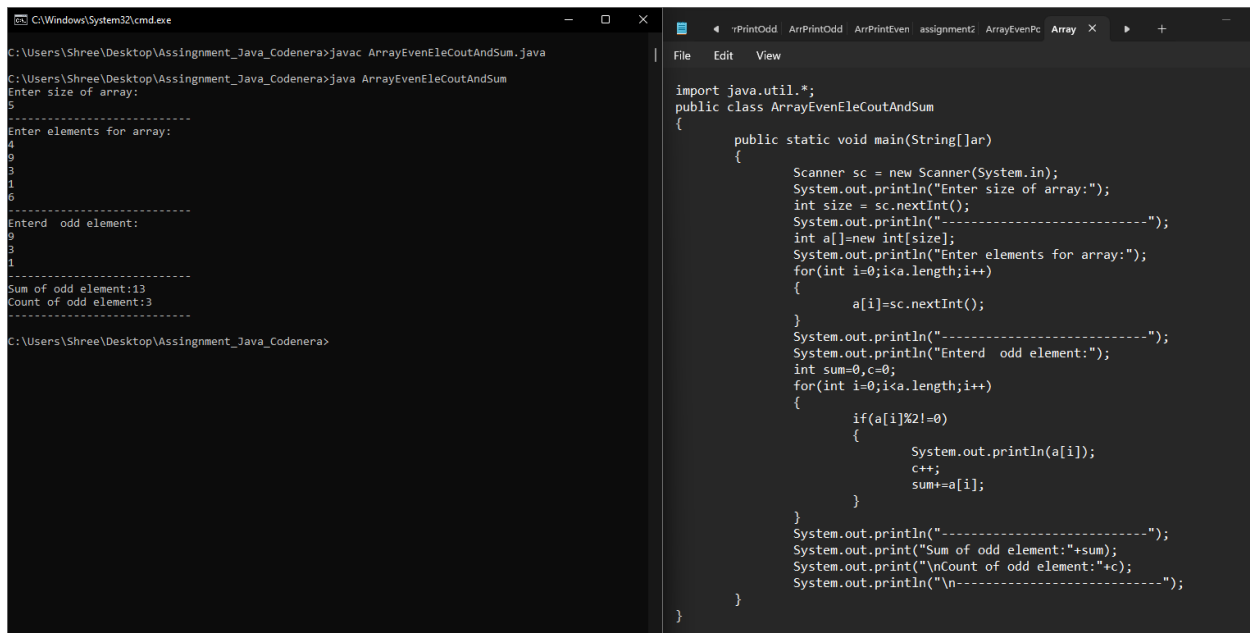


The image shows a screenshot of a Java program being executed in a command prompt and its source code in an IDE. The command prompt on the left shows the execution of the program, which prompts the user to enter the size of the array (5) and then the elements (7, 9, 5, 3, 4). It then asks for elements at even positions (9, 3) and outputs the sum (12) and count (2). The IDE on the right shows the source code of the program, which uses a Scanner to read input, creates an array, and iterates through it to calculate the sum and count of elements at even positions.

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ArrayEvenPosiCoutAndSum.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArrayEvenPosiCoutAndSum
Enter size of array:
5
-----
Enter elements for array:
7
9
5
3
4
-----
Enterd element present at even position:
9
3
-----
Sum of element present at even position:12
Count of element present at even position:2
-----
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

```
import java.util.*;
public class ArrayEvenPosiCoutAndSum
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----+-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        System.out.println("Enterd element present at even position:");
        int sum=0,c=0;
        for(int i=0;i<a.length;i++)
        {
            if(((i+1)%2==0))
            {
                System.out.println(a[i]);
                c++;
                sum+=a[i];
            }
        }
        System.out.println("-----");
        System.out.print("Sum of element present at even position:"+sum);
        System.out.print("\nCount of element present at even position:"+c);
        System.out.println("\n-----");
    }
}
```

2. Write a program enter an array and find the sum and count of odd element.

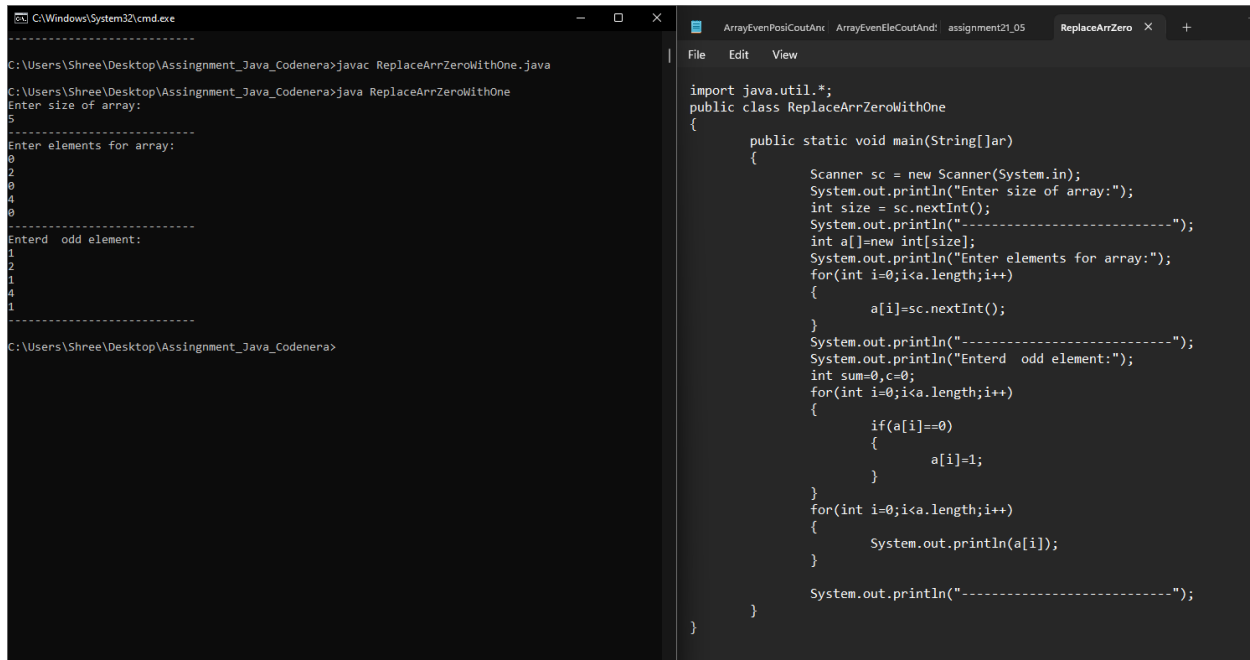


The image shows a screenshot of a Windows command prompt and an IDE. The command prompt on the left displays the execution of a Java program. The user enters the size of the array as 5, followed by the elements 4, 9, 3, 1, and 6. The program outputs the sum of odd elements as 13 and the count of odd elements as 3. The IDE on the right shows the source code of the program, which uses a Scanner to read input, iterates through the array, and calculates the sum and count of odd elements.

```
C:\Windows\System32\cmd.exe
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ArrayEvenEleCoutAndSum.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArrayEvenEleCoutAndSum
Enter size of array:
5
-----
Enter elements for array:
4
9
3
1
6
-----
Enterd odd element:
9
3
1
-----
Sum of odd element:13
Count of odd element:3
-----
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

```
File Edit View
import java.util.*;
public class ArrayEvenEleCoutAndSum
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        System.out.println("Enterd odd element:");
        int sum=0,c=0;
        for(int i=0;i<a.length;i++)
        {
            if(a[i]%2!=0)
            {
                System.out.println(a[i]);
                c++;
                sum+=a[i];
            }
        }
        System.out.println("-----");
        System.out.print("Sum of odd element:"+sum);
        System.out.print("\nCount of odd element:"+c);
        System.out.println("\n-----");
    }
}
```

3. Write a program to replace all the 0's with 1's in your array. Your array is [26, 0, 67, 45, 0, 78, 54, 34, 10, 0, 34].



The screenshot displays a Java IDE with two windows. The left window is a command prompt titled 'C:\Windows\System32\cmd.exe' showing the compilation and execution of a Java program. The right window is a code editor titled 'ReplaceArrZero' showing the source code of the program.

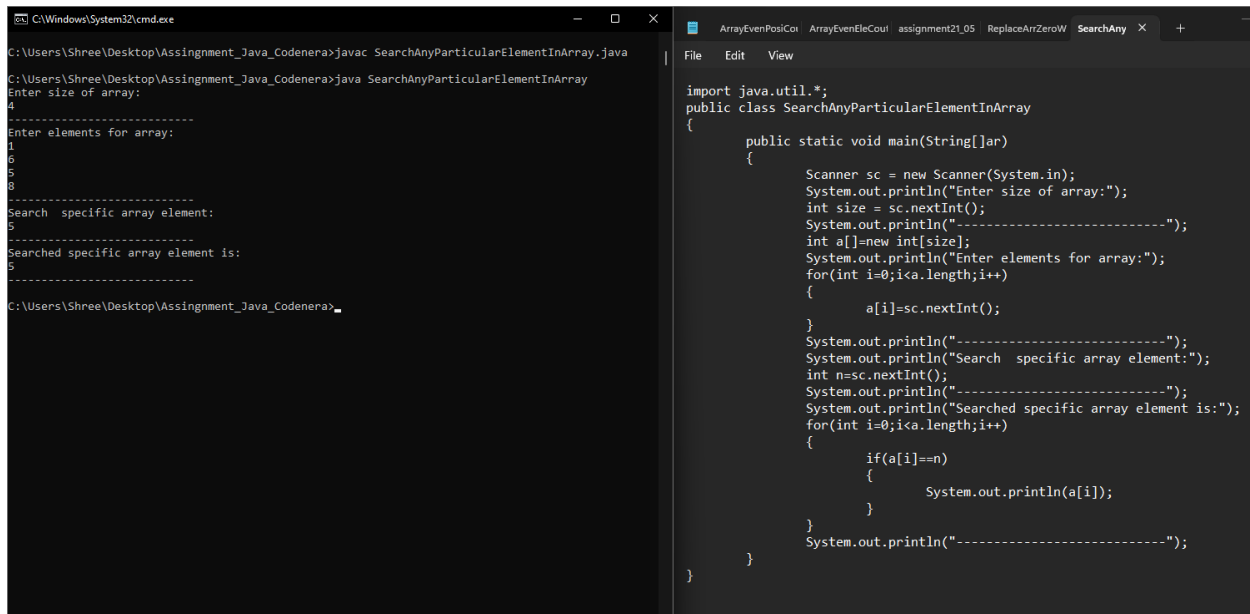
Command Prompt Output:

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ReplaceArrZeroWithOne.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ReplaceArrZeroWithOne
Enter size of array:
5
Enter elements for array:
0
2
0
4
0
Enterd odd element:
1
2
1
4
1
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

Source Code (ReplaceArrZero.java):

```
import java.util.*;
public class ReplaceArrZeroWithOne
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        System.out.println("Enterd odd element:");
        int sum=0,c=0;
        for(int i=0;i<a.length;i++)
        {
            if(a[i]==0)
            {
                a[i]=1;
            }
        }
        for(int i=0;i<a.length;i++)
        {
            System.out.println(a[i]);
        }
        System.out.println("-----");
    }
}
```

4. Write a program enter an array and search any particular element.



The image displays a Java program for searching an array element, presented in two side-by-side windows. The left window shows the command prompt output, and the right window shows the source code.

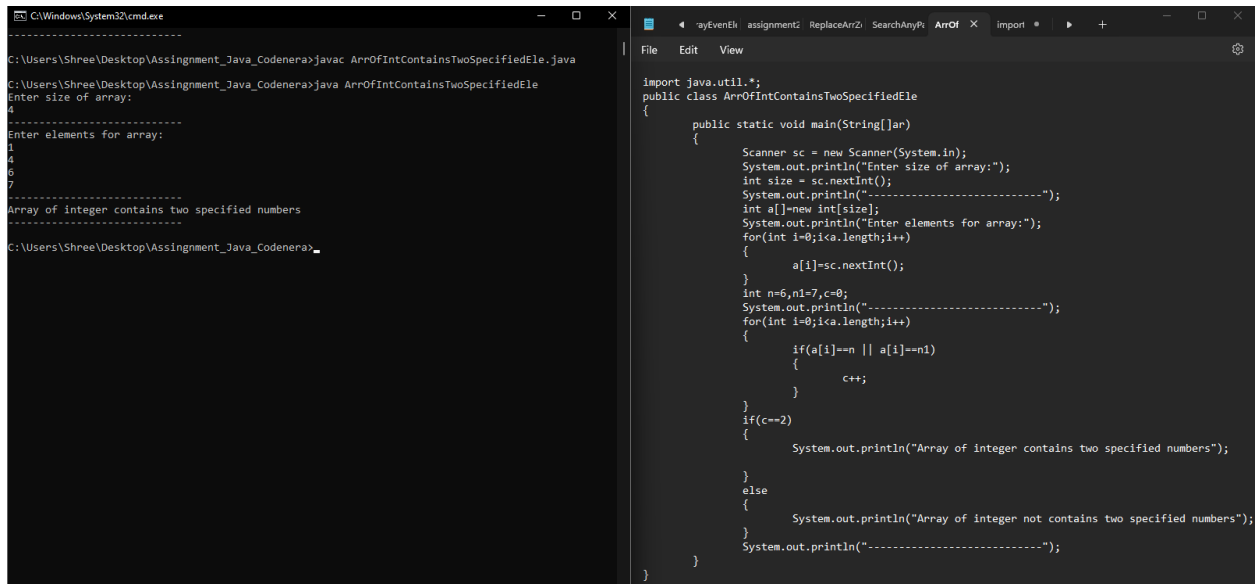
Source Code (Right Window):

```
import java.util.*;
public class SearchAnyParticularElementInArray
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        System.out.println("Search specific array element:");
        int n=sc.nextInt();
        System.out.println("-----");
        System.out.println("Searched specific array element is:");
        for(int i=0;i<a.length;i++)
        {
            if(a[i]==n)
            {
                System.out.println(a[i]);
            }
        }
        System.out.println("-----");
    }
}
```

Execution Output (Left Window):

```
C:\Users\Shree\Desktop\Assignment_Java_Codenera>javac SearchAnyParticularElementInArray.java
C:\Users\Shree\Desktop\Assignment_Java_Codenera>java SearchAnyParticularElementInArray
Enter size of array:
4
-----
Enter elements for array:
1
6
5
8
-----
Search specific array element:
5
-----
Searched specific array element is:
5
-----
C:\Users\Shree\Desktop\Assignment_Java_Codenera>
```

5. Write a program to check if an array of integers contains two specified elements.



The image shows a screenshot of a Windows environment with two windows. The left window is a Command Prompt (cmd.exe) showing the execution of a Java program. The right window is an IDE (likely VS Code) showing the source code of the program.

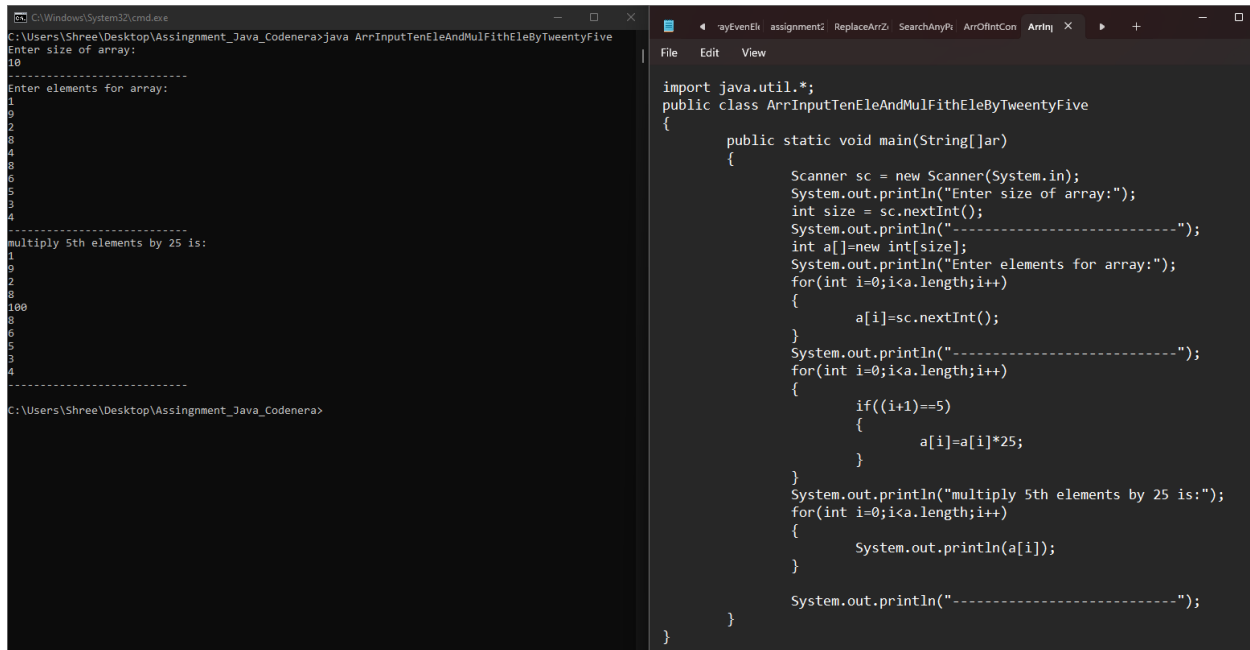
Command Prompt Output:

```
C:\Windows\System32\cmd.exe
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ArrOfIntContainsTwoSpecifiedEle.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArrOfIntContainsTwoSpecifiedEle
Enter size of array:
4
-----
Enter elements for array:
1
4
6
7
-----
Array of integer contains two specied numbers
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

Source Code (ArrOfIntContainsTwoSpecifiedEle.java):

```
import java.util.*;
public class ArrOfIntContainsTwoSpecifiedEle
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        int n=6,n1=7,c=0;
        System.out.println("-----");
        for(int i=0;i<a.length;i++)
        {
            if(a[i]==n || a[i]==n1)
            {
                c++;
            }
        }
        if(c==2)
        {
            System.out.println("Array of integer contains two specified numbers");
        }
        else
        {
            System.out.println("Array of integer not contains two specified numbers");
        }
        System.out.println("-----");
    }
}
```

6. Write a program input 10 elements and multiply 5th elements by 25.

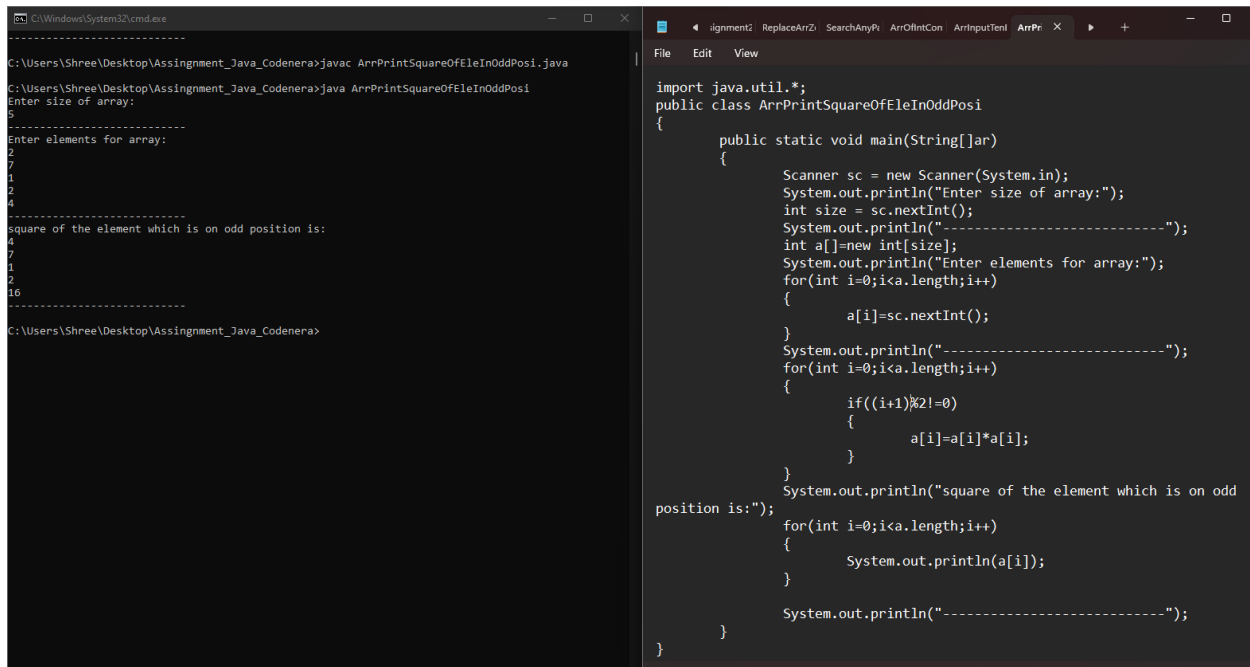


The image shows a screenshot of a Java program being executed in a command prompt and its source code in an IDE. The command prompt on the left shows the execution of the program, which prompts the user to enter the size of the array (10) and then 10 elements. It then multiplies the 5th element (index 4) by 25, resulting in 100. The IDE on the right shows the source code for the class `ArrInputTenEleAndMulFithEleByTwentyFive`.

```
C:\Windows\System32\cmd.exe
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArrInputTenEleAndMulFithEleByTwentyFive
Enter size of array:
10
-----
Enter elements for array:
1
2
3
4
5
6
7
8
9
10
-----
multiply 5th elements by 25 is:
1
2
3
4
100
5
6
7
8
9
10
-----
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

```
File Edit View
import java.util.*;
public class ArrInputTenEleAndMulFithEleByTwentyFive
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        for(int i=0;i<a.length;i++)
        {
            if((i+1)==5)
            {
                a[i]=a[i]*25;
            }
        }
        System.out.println("multiply 5th elements by 25 is:");
        for(int i=0;i<a.length;i++)
        {
            System.out.println(a[i]);
        }
        System.out.println("-----");
    }
}
```

7. Write a program enter an array and print the square of the element which is on odd position.



The image shows a screenshot of a Java IDE with two windows. The left window displays the output of a Java program, and the right window displays the source code of the program.

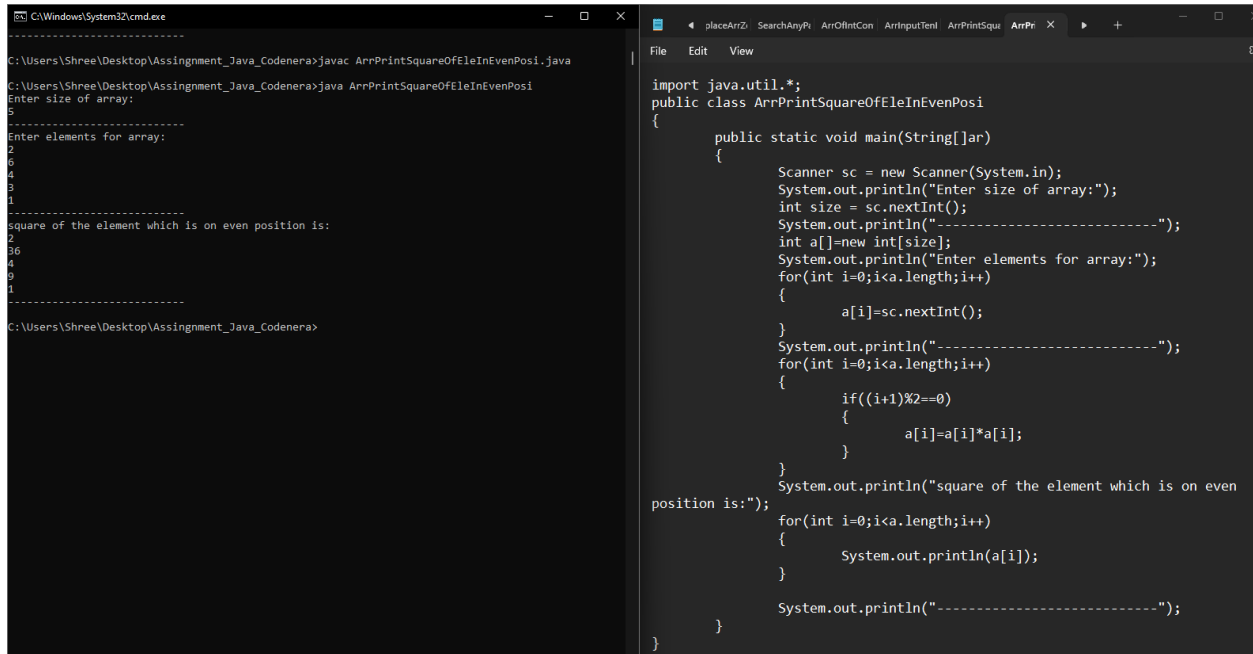
Left Window (Output):

```
C:\Windows\System32\cmd.exe
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ArrPrintSquareOfEleInOddPosi.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArrPrintSquareOfEleInOddPosi
Enter size of array:
5
Enter elements for array:
2
7
1
2
4
-----
square of the element which is on odd position is:
4
7
1
2
16
-----
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

Right Window (Source Code):

```
import java.util.*;
public class ArrPrintSquareOfEleInOddPosi
{
    public static void main(String[] ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        for(int i=0;i<a.length;i++)
        {
            if((i+1)%2!=0)
            {
                a[i]=a[i]*a[i];
            }
        }
        System.out.println("square of the element which is on odd
position is:");
        for(int i=0;i<a.length;i++)
        {
            System.out.println(a[i]);
        }
        System.out.println("-----");
    }
}
```

8. Write a program enter an array and print the square of the element which is on even position.



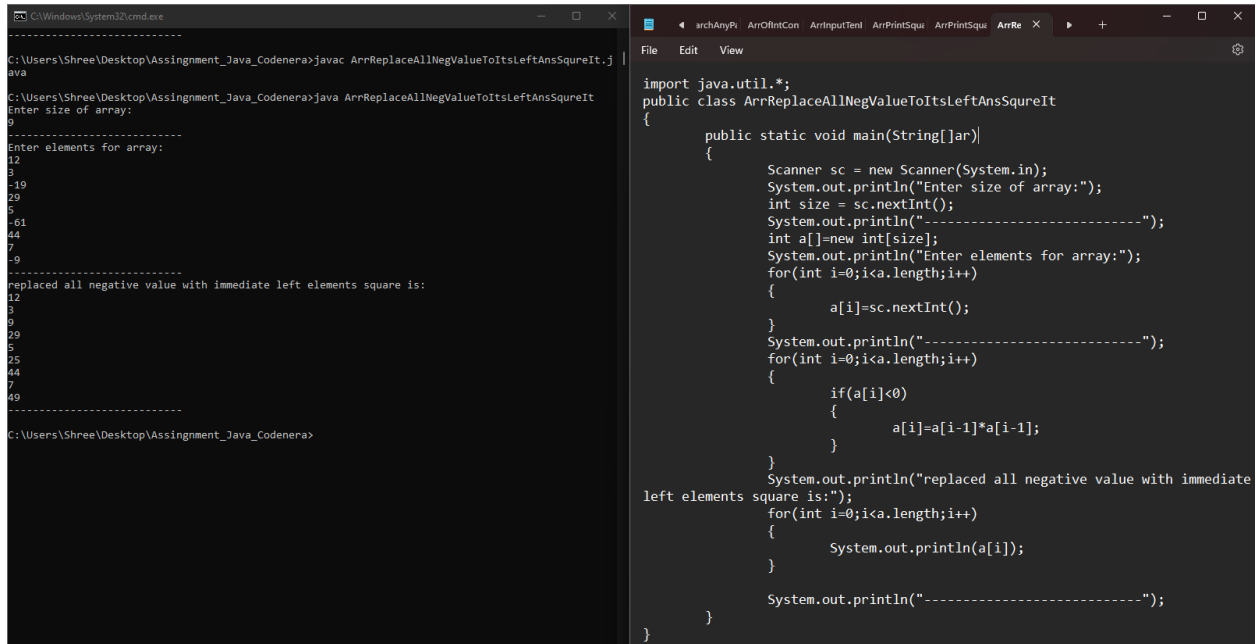
The image shows a screenshot of a Java program being executed in a command prompt and its source code in an IDE. The command prompt on the left shows the execution of the program, which prompts the user to enter the size of the array (5) and the elements (2, 0, 4, 3, 1). It then prints the square of the element at the even position (index 1, value 0), which is 36.

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ArrPrintSquareOfEleInEvenPosi.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArrPrintSquareOfEleInEvenPosi
Enter size of array:
5
Enter elements for array:
2
0
4
3
1
-----
square of the element which is on even position is:
2
36
4
9
1
-----
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

The IDE on the right shows the source code of the program, which uses a Scanner to read input, creates an array, and prints the square of the element at the even position.

```
import java.util.*;
public class ArrPrintSquareOfEleInEvenPosi
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        for(int i=0;i<a.length;i++)
        {
            if((i+1)%2==0)
            {
                a[i]=a[i]*a[i];
            }
        }
        System.out.println("square of the element which is on even
position is:");
        for(int i=0;i<a.length;i++)
        {
            System.out.println(a[i]);
        }
        System.out.println("-----");
    }
}
```

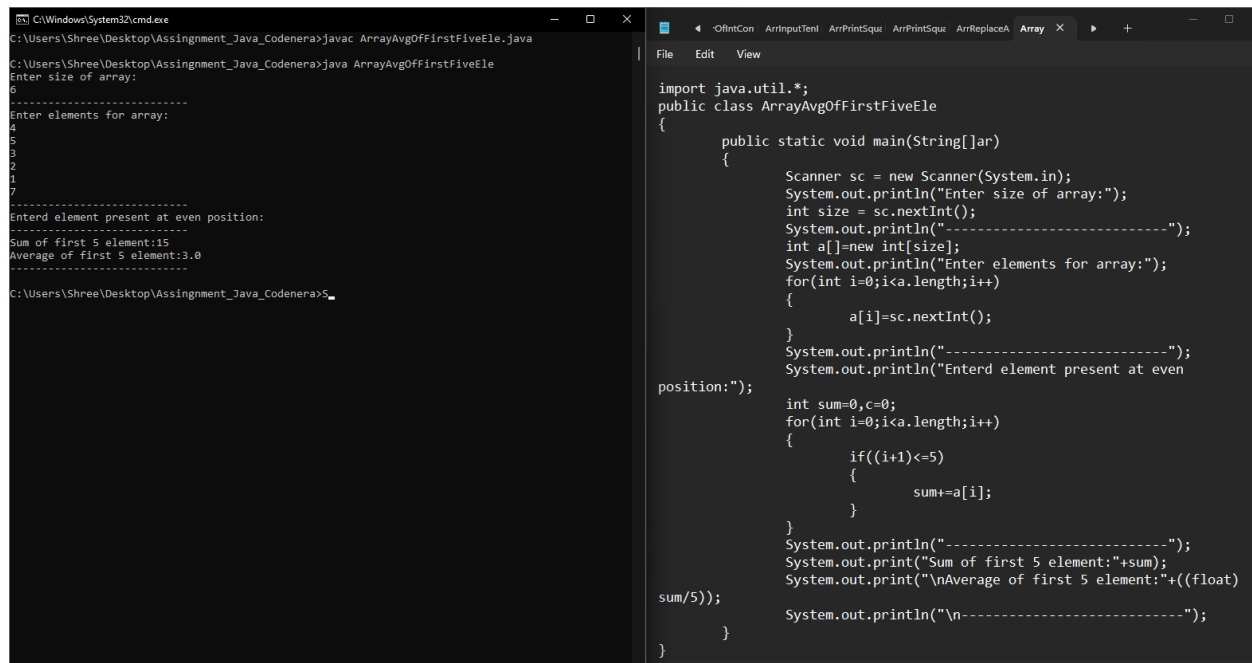

9. Write a program replace all negative value with its immediate left elements square. Means arr[] = [12, 3, -19, 29, 5, -61, 44, 7, -9] Output array will be [12, 3, 9, 29, 5, 25, 44, 7, 49].



```
C:\Windows\System32\cmd.exe
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ArrReplaceAllNegValueToItsLeftAnsSquireIt.j
ava
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArrReplaceAllNegValueToItsLeftAnsSquireIt
Enter size of array:
9
-----
Enter elements for array:
12
3
-19
29
5
-61
44
7
-9
-----
replaced all negative value with immediate left elements square is:
12
3
9
29
5
25
44
7
49
-----
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

```
import java.util.*;
public class ArrReplaceAllNegValueToItsLeftAnsSquireIt
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        for(int i=0;i<a.length;i++)
        {
            if(a[i]<0)
            {
                a[i]=a[i-1]*a[i-1];
            }
        }
        System.out.println("replaced all negative value with immediate
left elements square is:");
        for(int i=0;i<a.length;i++)
        {
            System.out.println(a[i]);
        }
        System.out.println("-----");
    }
}
```

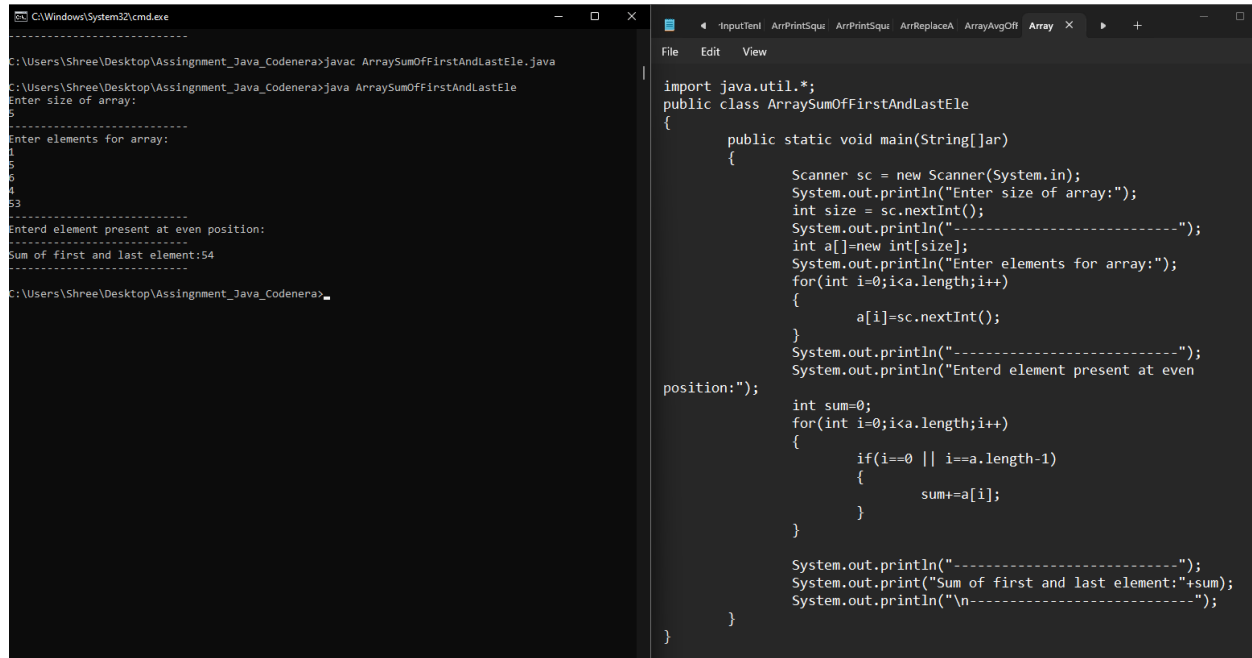
10. Write a program to input an array and find its average of first 5 element.



```
C:\Windows\System32\cmd.exe
C:\Users\Shree\Desktop\Assignment_Java_Codenera>javac ArrayAvgOfFirstFiveEle.java
C:\Users\Shree\Desktop\Assignment_Java_Codenera>java ArrayAvgOfFirstFiveEle
Enter size of array:
6
-----
Enter elements for array:
4
5
3
2
1
7
-----
Enter element present at even position:
Sum of first 5 element:15
Average of first 5 element:3.0
-----
C:\Users\Shree\Desktop\Assignment_Java_Codenera>S_

import java.util.*;
public class ArrayAvgOfFirstFiveEle
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        System.out.println("Enter element present at even
position:");
        int sum=0,c=0;
        for(int i=0;i<a.length;i++)
        {
            if((i+1)<=5)
            {
                sum+=a[i];
            }
        }
        System.out.println("-----");
        System.out.print("Sum of first 5 element:"+sum);
        System.out.print("\nAverage of first 5 element:"+(float)
sum/5));
        System.out.println("\n-----");
    }
}
```

11. Write a program enter an array and find the sum of 1st and last element in the given array.



The image shows a screenshot of a Windows command prompt and an IDE window. The command prompt on the left displays the execution of a Java program. The IDE on the right shows the source code of the program, which is a Java class named `ArraySumOfFirstAndLastEle`. The program prompts the user to enter the size of the array, then the elements of the array, and finally the position of the element to be summed with the first element. The output shows the sum of the first and last elements is 54.

```
C:\Users\Shree\Desktop\Assingment_Java_Codenera>javac ArraySumOfFirstAndLastEle.java
C:\Users\Shree\Desktop\Assingment_Java_Codenera>java ArraySumOfFirstAndLastEle
Enter size of array:
5
-----
Enter elements for array:
1
5
0
4
53
-----
Enterd element present at even position:
-----
Sum of first and last element:54
-----
C:\Users\Shree\Desktop\Assingment_Java_Codenera>
```

```
import java.util.*;
public class ArraySumOfFirstAndLastEle
{
    public static void main(String[]ar)
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter size of array:");
        int size = sc.nextInt();
        System.out.println("-----");
        int a[]=new int[size];
        System.out.println("Enter elements for array:");
        for(int i=0;i<a.length;i++)
        {
            a[i]=sc.nextInt();
        }
        System.out.println("-----");
        System.out.println("Enterd element present at even
position:");
        int sum=0;
        for(int i=0;i<a.length;i++)
        {
            if(i==0 || i==a.length-1)
            {
                sum+=a[i];
            }
        }
        System.out.println("-----");
        System.out.print("Sum of first and last element:"+sum);
        System.out.println("\n-----");
    }
}
```