Assignment No:-14

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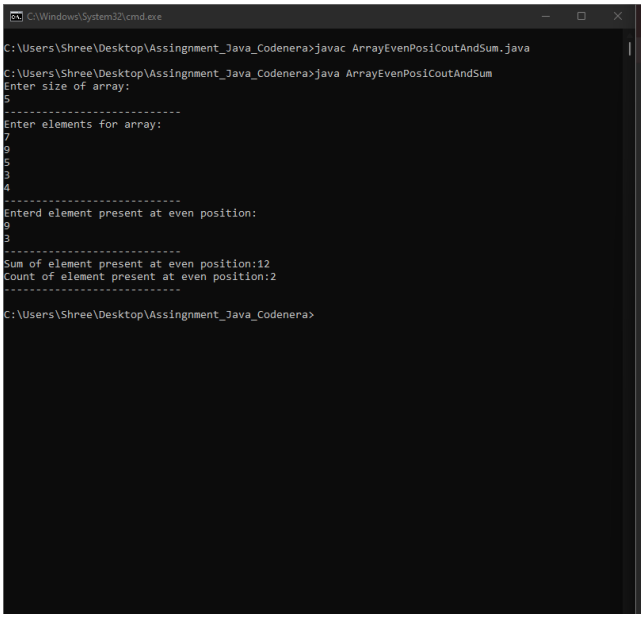
Batch: - Delta - DCA (Java) 2024 Date:-21/5/2024

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



```
C:\Windows\System32\cmd.exe

C:\Users\Shree\Desktop\Assignment_Java_Codenera>javac ArrayEvenPosiCoutAndSum.java

C:\Users\Shree\Desktop\Assignment_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
---------------------------

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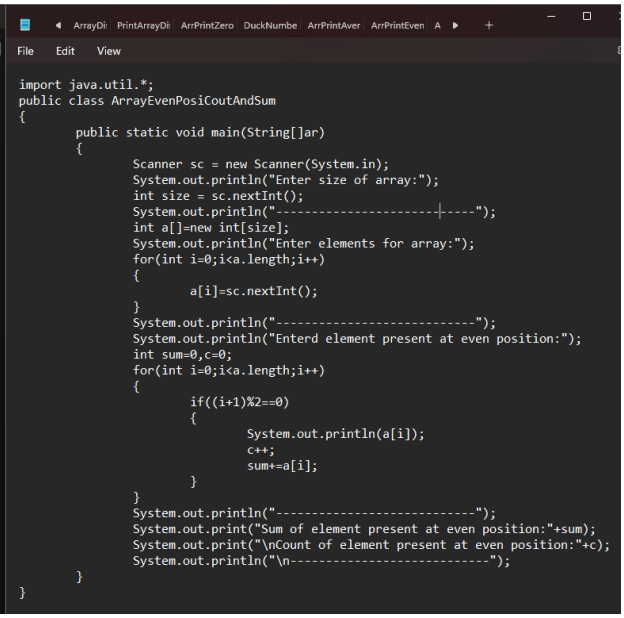
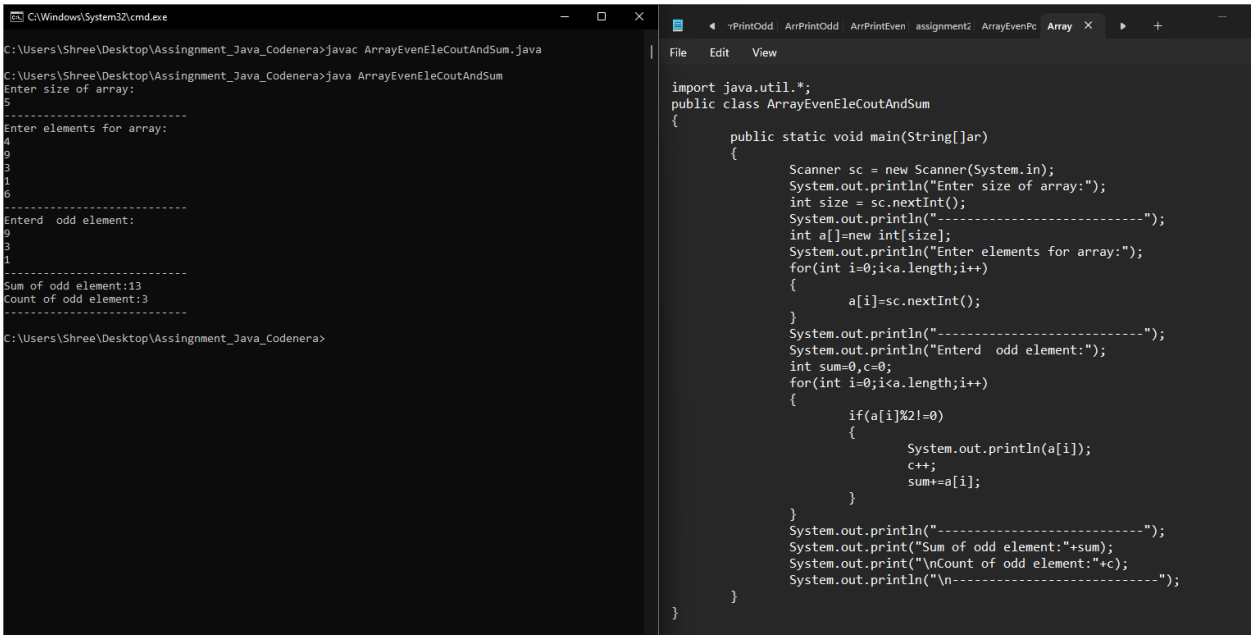


```
File  Edit  View

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.



```
C:\Windows\System32\cmd.exe

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ArrayEvenEleCoutAndSum.java

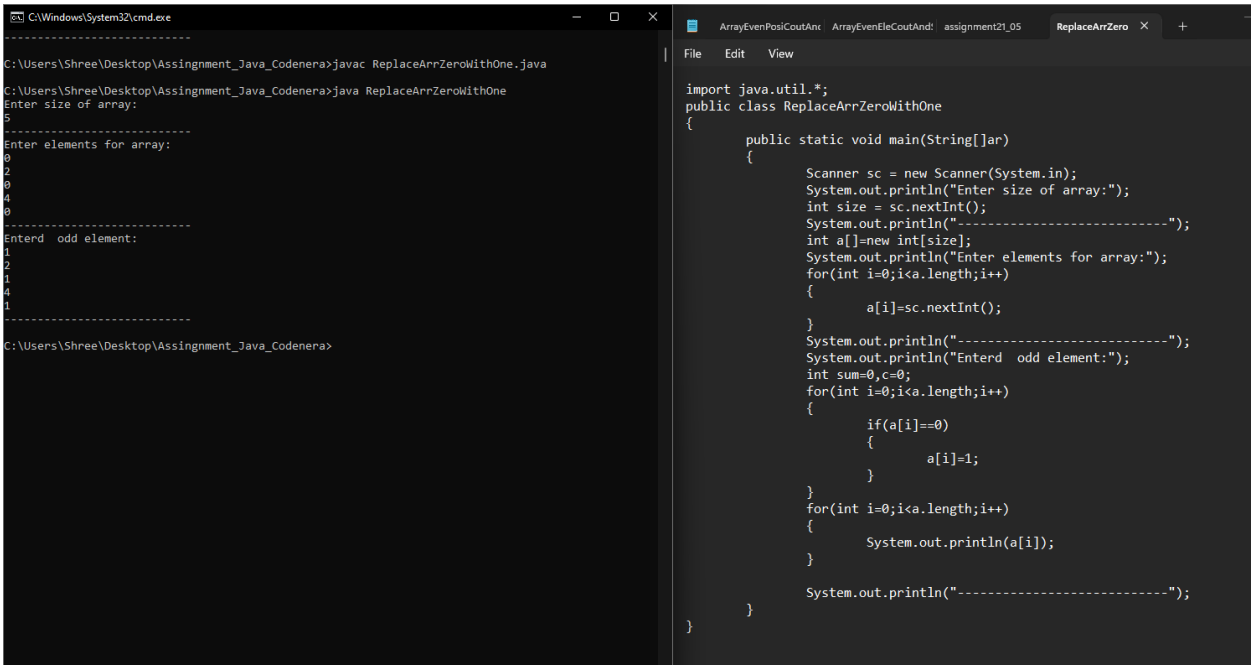
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ArrayEvenEleCoutAndSum
Enter size of array:
5
----------------------------
Enter elements for array:
4
9
3
1
6
----------------------------
Enterd  odd element:
9
3
1
----------------------------
Sum of odd element:13
Count of odd element:3
----------------------------

C:\Users\Shree\Desktop\Assingnment_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].



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C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ReplaceArrZeroWithOne.java

C:\Users\Shree\Desktop\Assingnment_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\Assingnment_Java_Codenera>
```
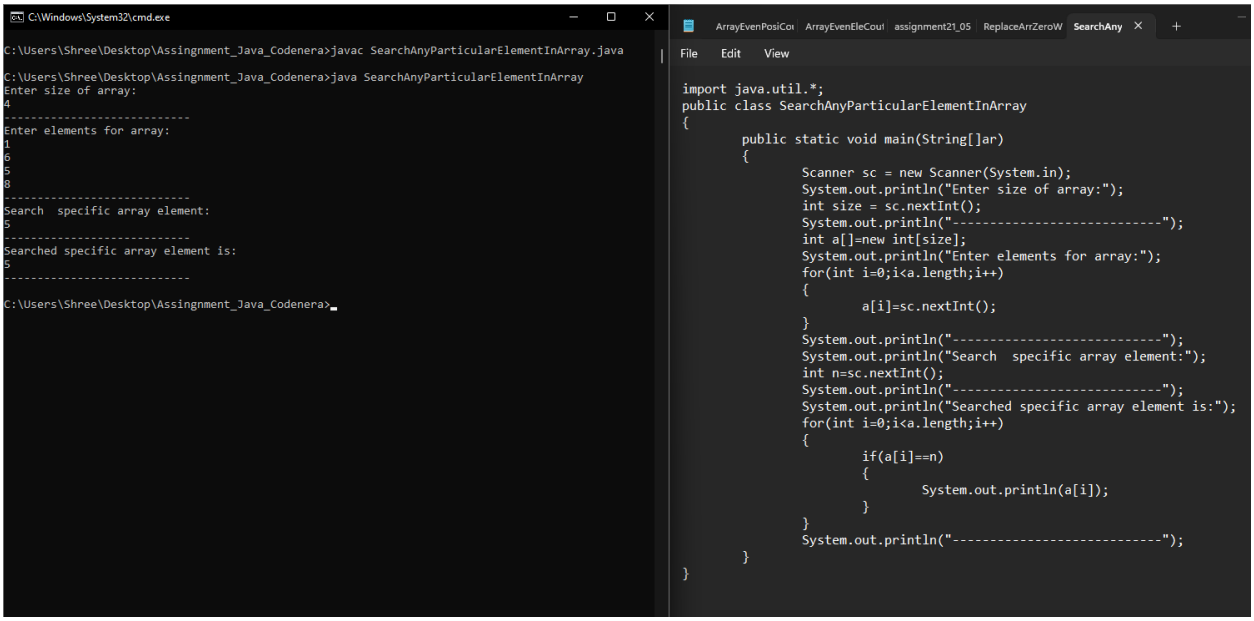

```
ArrayEvenPosiCoutAnc | ArrayEvenEleCoutAnd: | assignment21_05 | ReplaceArrZero
File  Edit  View

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.



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C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac SearchAnyParticularElementInArray.java

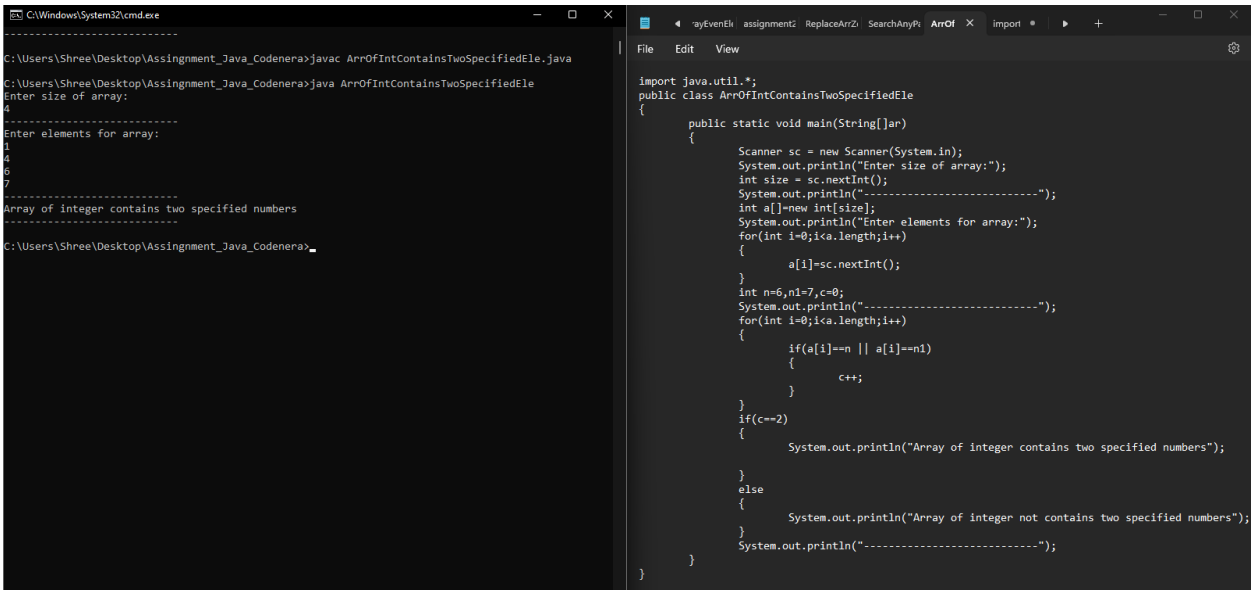
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java SearchAnyParticularElementInArray
Enter size of array:
4
----------------------------
Enter elements for array:
4
6
5
8
----------------------------
Search  specific array element:
5
----------------------------
Searched specific array element is: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

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>
```

```
ArrayEvenPosiCou  ArrayEvenEleCou  assignment21_05  ReplaceArrZeroW  SearchAny
File  Edit  View

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("----------------------------");
        }
}
```

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



```
C:\Windows\System32\cmd.exe
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C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ArrOfIntContainsTwoSpecifiedEle.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ArrOfIntContainsTwoSpecifiedEle
Enter size of array:
4
----------------------------
Enter elements for array:
1
4
6
7
----------------------------
Array of integer contains two specified numbers
----------------------------

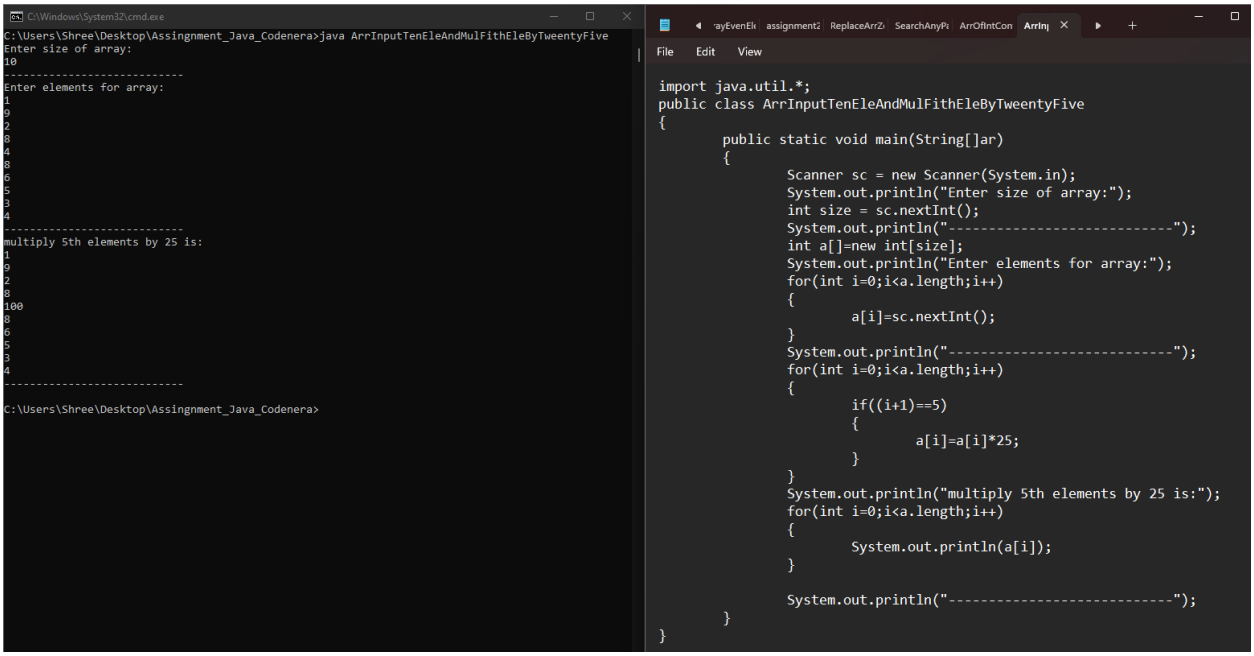
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>
```

```
File  Edit  View

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.



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

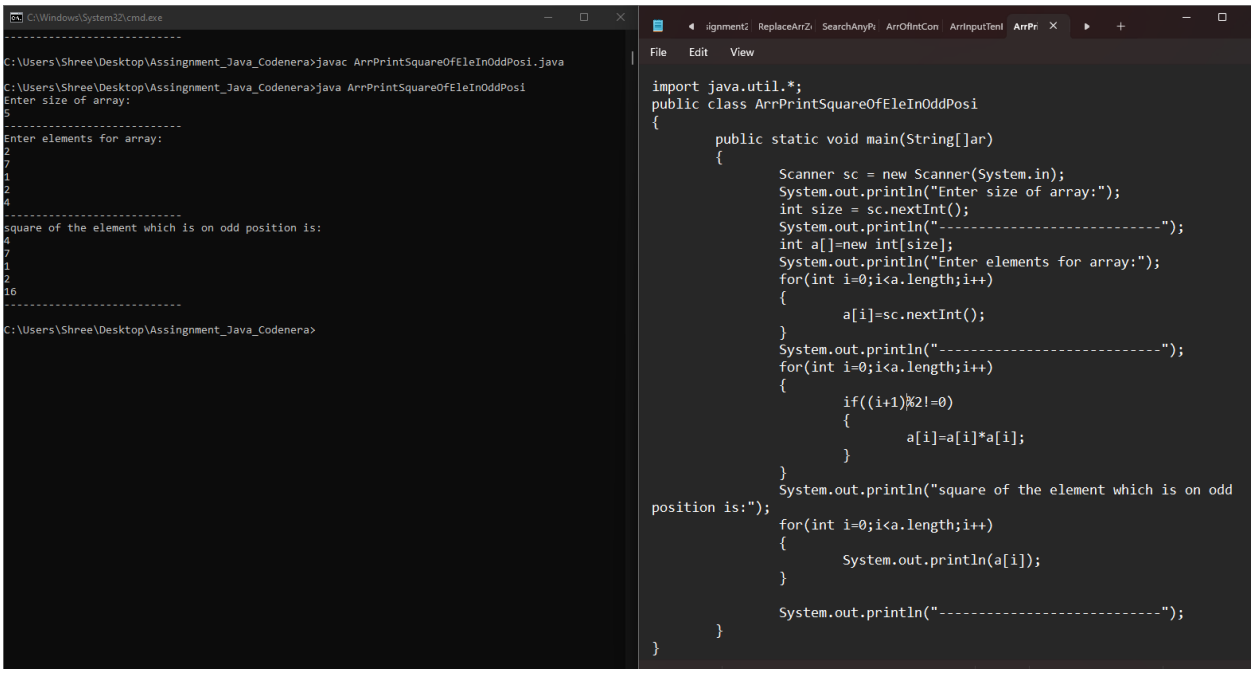
C:\Users\Shree\Desktop\Assignment_Java_Codenera>
```

```
File  Edit  View

import java.util.*;
public class ArrInputTenEleAndMulFithEleByTweentyFive
{
        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.



```
C:\Windows\System32\cmd.exe
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C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ArrPrintSquareOfEleInOddPosi.java

C:\Users\Shree\Desktop\Assingnment_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
----------------------------

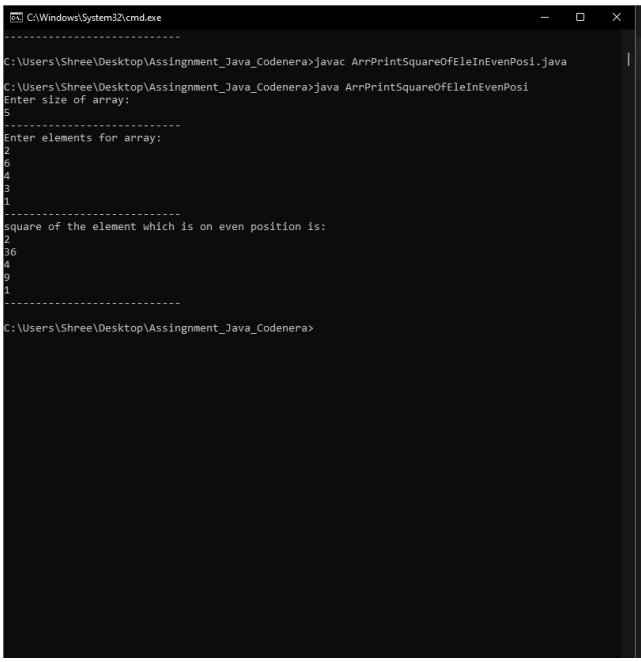
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>
```

```
File  Edit  View

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.

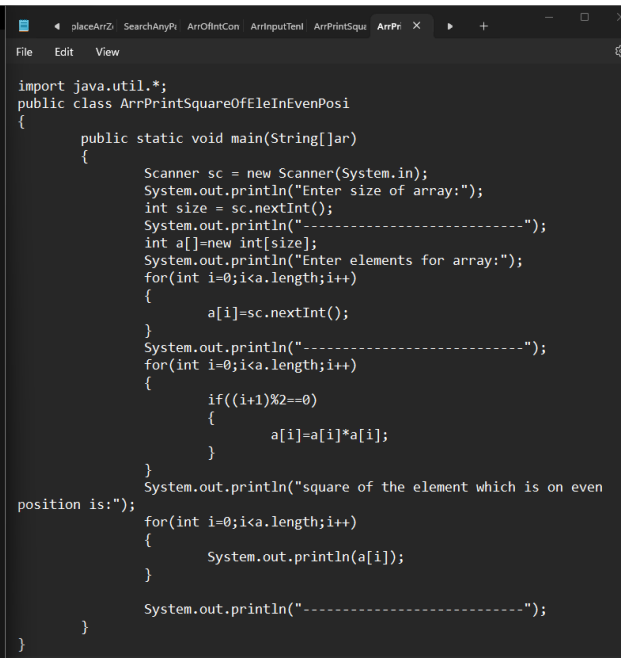


```
C:\Windows\System32\cmd.exe
----------------------------

C:\Users\Shree\Desktop\Assignment_Java_Codenera>javac ArrPrintSquareOfEleInEvenPosi.java

C:\Users\Shree\Desktop\Assignment_Java_Codenera>java ArrPrintSquareOfEleInEvenPosi
Enter size of array:
5
----------------------------
Enter elements for array:
2
6
4
3
1
----------------------------
square of the element which is on even position is:
2
36
4
9
1
----------------------------

C:\Users\Shree\Desktop\Assignment_Java_Codenera>
```



```
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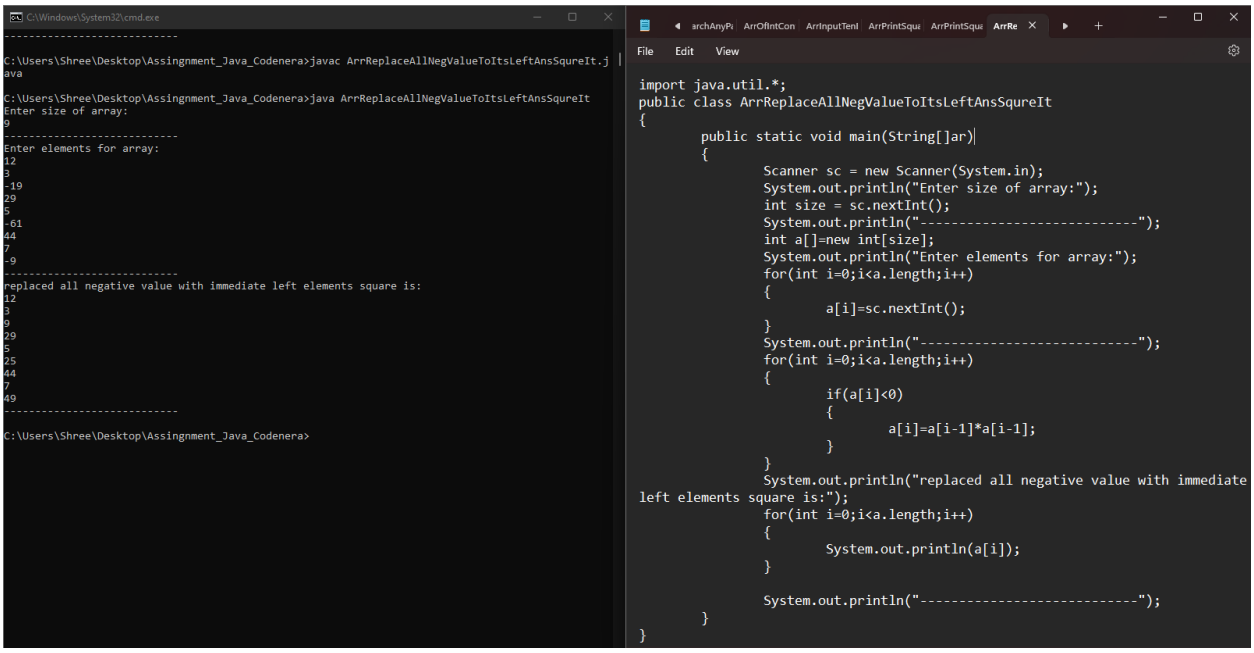
import java.util.*;
public class ArrPrintSquareOfEleInEvenPosi
{
	public static void main(String[]ar)
	{
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter size of array:");
		int size = sc.nextInt();
		System.out.println("----------------------------");
		int a[]=new int[size];
		System.out.println("Enter 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
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C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ArrReplaceAllNegValueToItsLeftAnsSqureIt.j
ava

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ArrReplaceAllNegValueToItsLeftAnsSqureIt
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
----------------------------

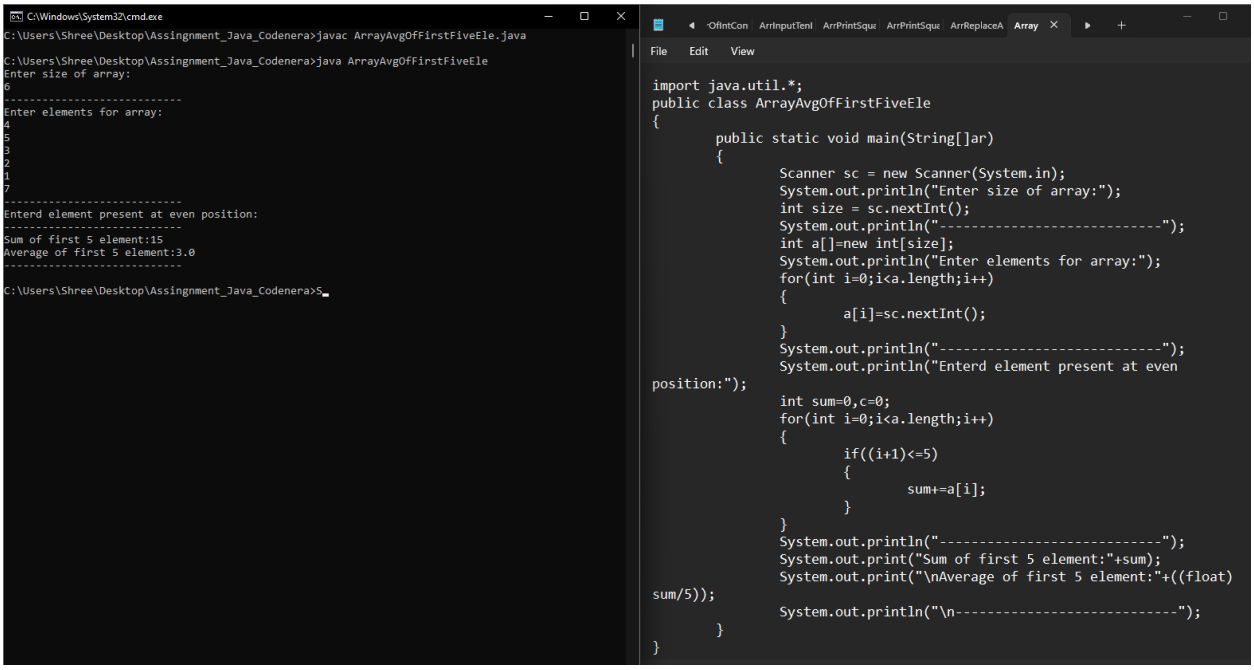
C:\Users\Shree\Desktop\Assingnment_Java_Codenera>
```

```
File  Edit  View

import java.util.*;
public class ArrReplaceAllNegValueToItsLeftAnsSqureIt
{
        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\Assingnment_Java_Codenera>javac ArrayAvgOfFirstFiveEle.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ArrayAvgOfFirstFiveEle
Enter size of array:
6
----------------------------
Enter elements for array:
4
5
3
2
1
7
----------------------------
Enterd element present at even position:
----------------------------
Sum of first 5 element:15
Average of first 5 element:3.0
----------------------------

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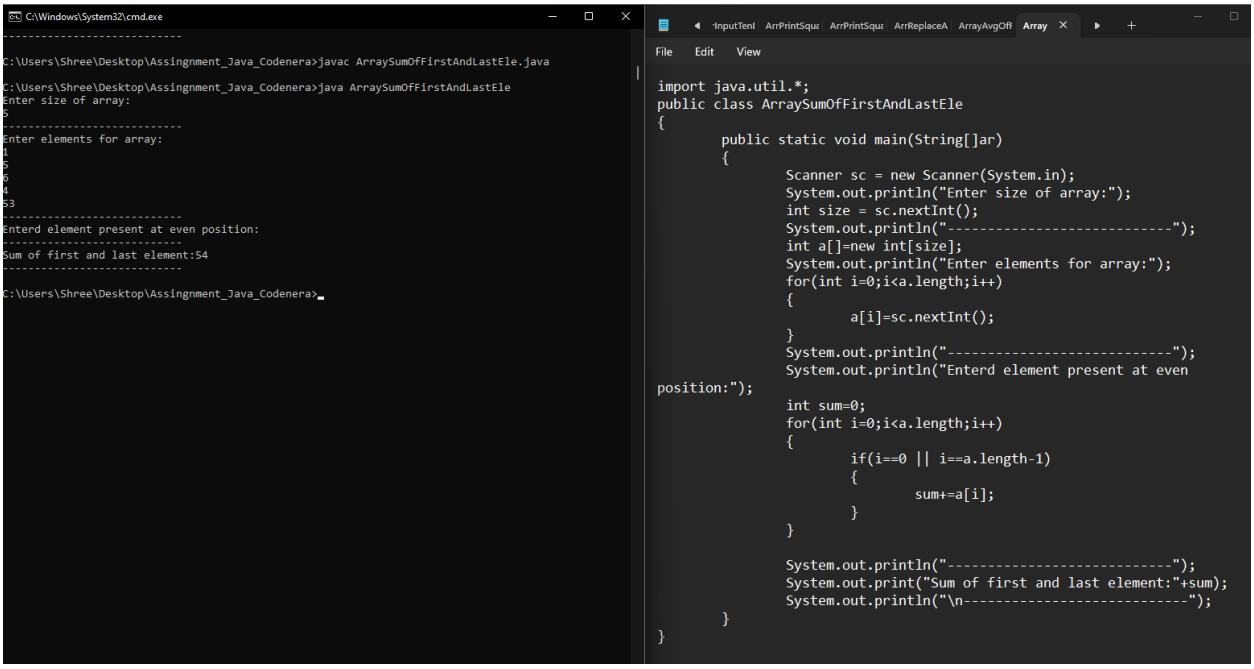
```

```
File  Edit  View

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("Enterd 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.



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C:\Windows\System32\cmd.exe
----------------------------

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>javac ArraySumOfFirstAndLastEle.java

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>java ArraySumOfFirstAndLastEle
Enter size of array:
5
----------------------------
Enter elements for array:
1
5
6
4
53
----------------------------
Enterd element present at even position:
----------------------------
Sum of first and last element:54
----------------------------

C:\Users\Shree\Desktop\Assingnment_Java_Codenera>
```

```
File  Edit  View

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----------------------------");
        }
}
```