

VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Computer Programming Java

MOODLE LAB TASK 3

Faculty: Sathya Raj R

Slot: L3+L4+L29+L30

Venue: SJT 515

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Array Questions

Q1. Write a Java code to get n integer inputs in an array from the user and print the odd numbers only.

CODE:

```
import java.util.Scanner;

public class Oddnumbersarray {
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter Array size:");
        int n=sc.nextInt();
        int [] arr=new int [n];
        System.out.println("Enter array elements:");
        for(int i=0;i<n;i++)
        {
            arr[i]=sc.nextInt();
        }
        sc.close();
        System.out.println("Odd Array elements are:");
        for(int i=0;i<arr.length;i++)
        {
            if(arr[i]%2!=0)
                System.out.println(arr[i]);
        }
    }
}
```

OUTPUT:

Oddnumbersarray.java > Oddnumbersarray > main(String[])

```

1 import java.util.Scanner;
2 public class Oddnumbersarray {
3     Run | Debug
4     public static void main(String args[])
5     {
6         Scanner sc=new Scanner(System.in);
7         System.out.print(s:"Enter Array size:");
8         int n=sc.nextInt();
9         int [] arr=new int [n];
10        System.out.println(x:"Enter array elements:");
11        for(int i=0;i<n;i++)
12        {
13            arr[i]=sc.nextInt();
14        }
15        sc.close();
16        System.out.println(x:"Odd Array elements are:");
17        for(int i=0;i<arr.length;i++)
18        {
19            if(arr[i]%2!=0)
20            System.out.println(arr[i]);
21        }
22    }
23 }
24 }
25 }
26 }
27 }

```

PROBLEMS 5 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7\src"
va Oddnumbersarray }
```

Enter Array size:10

Enter array elements:

52 69 44 23 222 5555 452 4125 8888 9653

Odd Array elements are:

69

23

5555

4125

9653

```
PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7>
```

Q2. Write a Java code to get 2D array elements input and print the elements.

CODE:

```
import java.util.Scanner;

public class Twodimensionalarray {

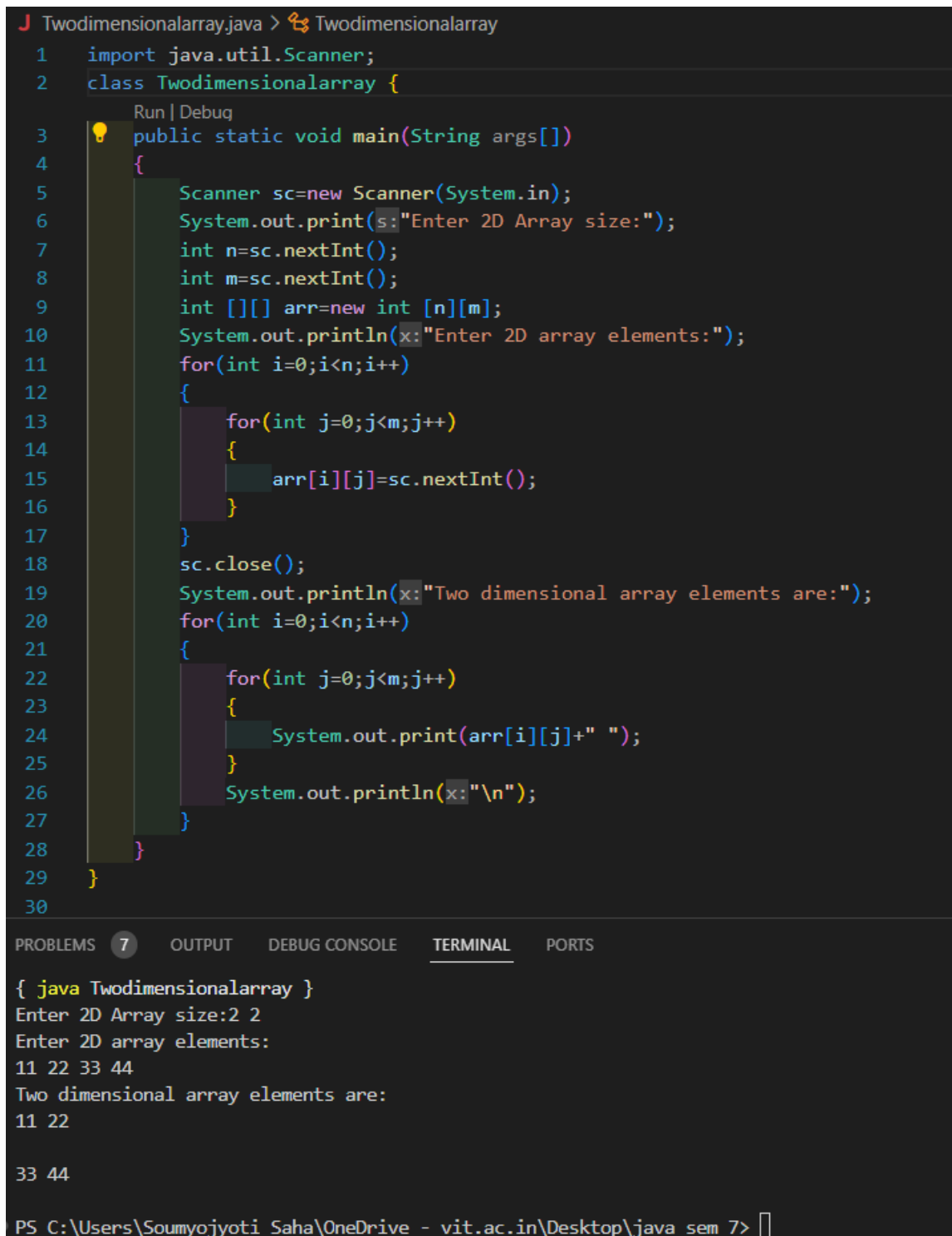
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter 2D Array size:");
        int n=sc.nextInt();
        int m=sc.nextInt();
        int [][] arr=new int [n][m];
        System.out.println("Enter 2D array elements:");
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<m;j++)
            {
                arr[i][j]=sc.nextInt();
            }
        }
        sc.close();
        System.out.println("Two dimensional array elements are:");
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<m;j++)
            {
                System.out.print(arr[i][j]+" ");
            }
        }
    }
}
```

```

        System.out.println("\n");
    }
}
}

```

OUTPUT:



The screenshot shows an IDE with a Java file named `Twodimensionalarray.java`. The code defines a class `Twodimensionalarray` with a `main` method. The `main` method prompts the user to enter the size of a 2D array (n and m), reads the input, creates a 2D array, and then prints the elements. The terminal output shows the execution of the program with input values 2 and 2, and the resulting 2x2 array elements: 11, 22, 33, and 44.

```

J Twodimensionalarray.java > Run | Debug
1  import java.util.Scanner;
2  class Twodimensionalarray {
3      public static void main(String args[])
4      {
5          Scanner sc=new Scanner(System.in);
6          System.out.print(s:"Enter 2D Array size:");
7          int n=sc.nextInt();
8          int m=sc.nextInt();
9          int [][] arr=new int [n][m];
10         System.out.println(x:"Enter 2D array elements:");
11         for(int i=0;i<n;i++)
12         {
13             for(int j=0;j<m;j++)
14             {
15                 arr[i][j]=sc.nextInt();
16             }
17         }
18         sc.close();
19         System.out.println(x:"Two dimensional array elements are:");
20         for(int i=0;i<n;i++)
21         {
22             for(int j=0;j<m;j++)
23             {
24                 System.out.print(arr[i][j]+" ");
25             }
26             System.out.println(x:"\n");
27         }
28     }
29 }
30

PROBLEMS 7 OUTPUT DEBUG CONSOLE TERMINAL PORTS

{ java Twodimensionalarray }
Enter 2D Array size:2 2
Enter 2D array elements:
11 22 33 44
Two dimensional array elements are:
11 22

33 44

PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7>

```

Q3. Write a Java code to get 2D array elements input and print the sum of the elements row wise.

CODE:

```
import java.util.Scanner;

public class Sumof2Drows {

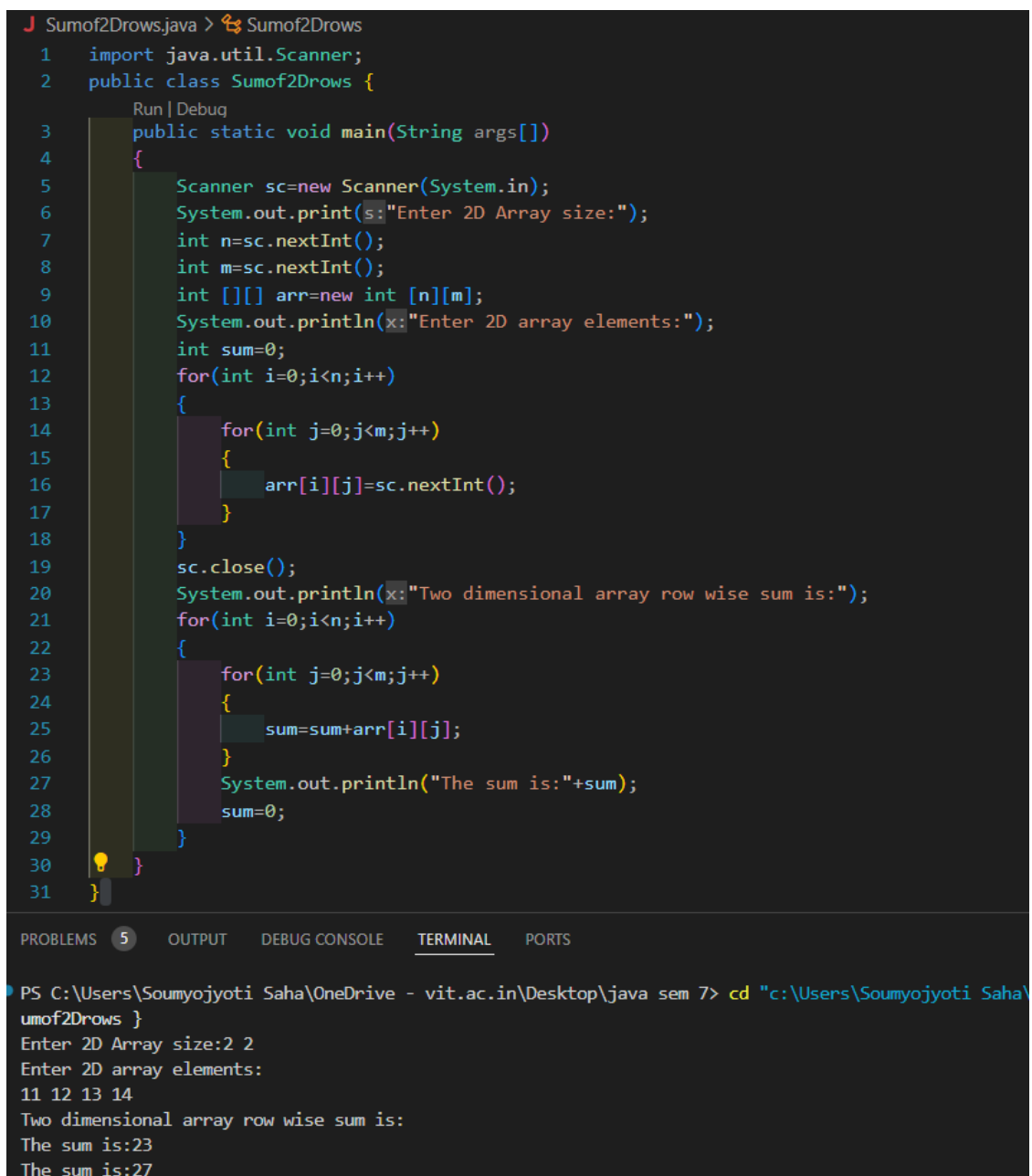
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter 2D Array size:");
        int n=sc.nextInt();
        int m=sc.nextInt();
        int [][] arr=new int [n][m];
        System.out.println("Enter 2D array elements:");
        int sum=0;
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<m;j++)
            {
                arr[i][j]=sc.nextInt();
            }
        }
        sc.close();
        System.out.println("Two dimensional array row wise sum is:");
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<m;j++)
            {
```

```

        sum=sum+arr[i][j];
    }
    System.out.println("The sum is:"+sum);
    sum=0;
}
}
}

```

OUTPUT:



The screenshot shows an IDE with a Java file named `Sumof2Drows.java`. The code is as follows:

```

1  import java.util.Scanner;
2  public class Sumof2Drows {
3      public static void main(String args[])
4      {
5          Scanner sc=new Scanner(System.in);
6          System.out.print(s:"Enter 2D Array size:");
7          int n=sc.nextInt();
8          int m=sc.nextInt();
9          int [][] arr=new int [n][m];
10         System.out.println(x:"Enter 2D array elements:");
11         int sum=0;
12         for(int i=0;i<n;i++)
13         {
14             for(int j=0;j<m;j++)
15             {
16                 arr[i][j]=sc.nextInt();
17             }
18         }
19         sc.close();
20         System.out.println(x:"Two dimensional array row wise sum is:");
21         for(int i=0;i<n;i++)
22         {
23             for(int j=0;j<m;j++)
24             {
25                 sum=sum+arr[i][j];
26             }
27             System.out.println("The sum is:"+sum);
28             sum=0;
29         }
30     }
31 }

```

The terminal output at the bottom shows the execution of the program:

```

PS C:\Users\Soumyojyoti Saha\OneDrive - vit.ac.in\Desktop\java sem 7> cd "c:\Users\Soumyojyoti Saha\
umof2Drows }
Enter 2D Array size:2 2
Enter 2D array elements:
11 12 13 14
Two dimensional array row wise sum is:
The sum is:23
The sum is:27

```

END