KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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WEB TECH. LAB 7

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```
// 1. WAP to declare a 3x3 multi-dimensional array, initialize
it and find the sum of left diagonal and right diagonal.

 class q1_array{

    public static void main(String[] args)
    {

         int arr[][]={{3,5,6},{3,4,2},{2,3,4}};
```

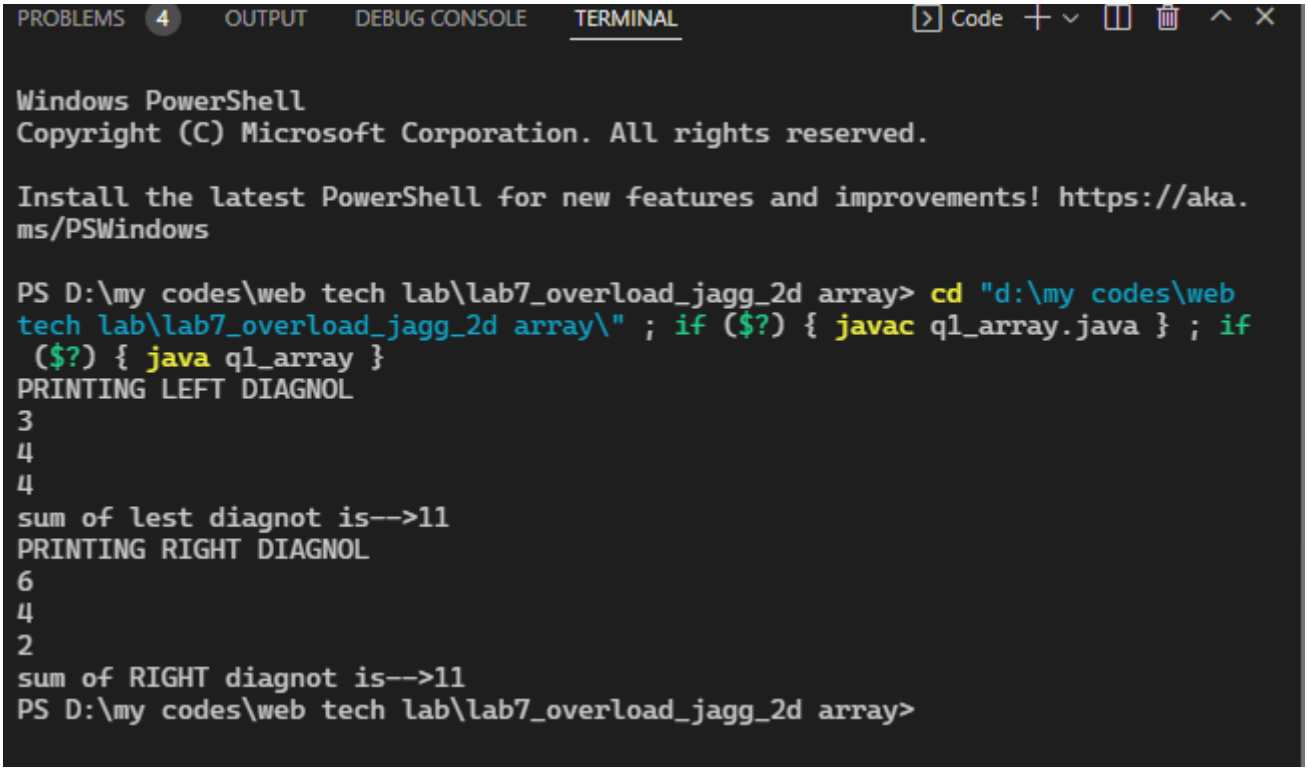
```
        int SUM=0;

           System.out.println("PRINTING LEFT DIAGNOL");
            for (int i = 0; i < arr.length; i++)
                 {
                      for (int j = 0; j < arr[i].length; j++)
                      {   if(i==j)
                          {System.out.print(arr[i][j] + " ");
                          SUM=SUM+arr[i][j];
                      }
                      }
                   System.out.println();
                 }
                 System.out.println("sum of lest diagnot is--
>"+SUM);

                 int SUMR=0;
           System.out.println("PRINTING RIGHT DIAGNOL");
           for (int i = 0; i < arr.length; i++)
                {
                     for (int j = 0; j < arr[i].length; j++)
                     {   if(i+j==2)
                       {
                         System.out.print(arr[i][j] + " ");
                         SUMR=SUMR+arr[i][j];
                       }
                     }
                   System.out.println();
                }
                System.out.println("sum of RIGHT diagnot is--
>"+SUM);

    }
}
```

OUTPUT -1



```
PROBLEMS 4   OUTPUT   DEBUG CONSOLE   TERMINAL                    Code

Windows PowerShell
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ms/PSWindows

PS D:\my codes\web tech lab\lab7_overload_jagg_2d array> cd "d:\my codes\web
tech lab\lab7_overload_jagg_2d array\" ; if ($?) { javac q1_array.java } ; if
 ($?) { java q1_array }
PRINTING LEFT DIAGNOL
3
4
4
sum of lest diagnot is-->11
PRINTING RIGHT DIAGNOL
6
4
2
sum of RIGHT diagnot is-->11
PS D:\my codes\web tech lab\lab7_overload_jagg_2d array>
```

```
// 2. WAP to declare and initialize a jagged array with even
nos., where 1st row contains 3 elements, 2nd 2 elements, 3rd 1
element, 4th 2 elements and 5th 3 elements. Print the array.



class q2_jagged
 {
public static void main(String[] args)
{

        int arr[][]=new int [5][];
        arr[0]=new int [3];
        arr[1]=new int [2];
        arr[2]=new int [1];
        arr[3]=new int [2];
```

```
        arr[4]=new int [3];

        int count = 0;
        for (int i = 0; i < arr.length; i++)
          {for (int j = 0; j < arr[i].length; j++)
           {
                arr[i][j] = count;
           }
           count=count+2;
          }


           System.out.println("PRINTING ARRAY");
            for (int i = 0; i < arr.length; i++)
                 {   for (int j = 0; j < arr[i].length; j++)
                      { System.out.print(arr[i][j] + " ");
                      }
                   System.out.println();
                 }

}
}
```

OUTPUT-2

```
PROBLEMS 4   OUTPUT   DEBUG CONSOLE   TERMINAL                Code

Windows PowerShell
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ms/PSWindows

PS D:\my codes\web tech lab\lab7_overload_jagg_2d array> cd "d:\my codes\web
tech lab\lab7_overload_jagg_2d array\" ; if ($?) { javac q2_jagged.java } ; i
f ($?) { java q2_jagged }
PRINTING ARRAY
0 0 0
2 2
4
6 6
8 8 8
PS D:\my codes\web tech lab\lab7_overload_jagg_2d array>
```
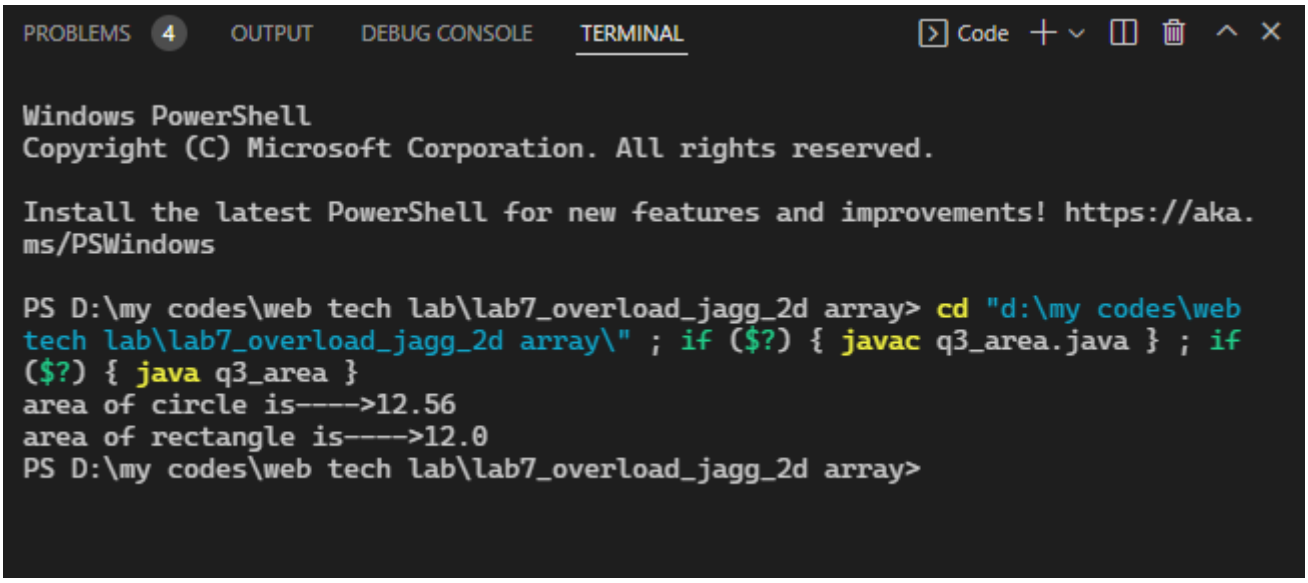

```java
// 3. WAP to overload the area method which will find the area
of a circle and area of a rectangle.



class q3_area


{
   static void area(int r)
  {
      double ar;
      ar= 3.14*r*r;
      System.out.println("area of circle is---->"+ar);
  }

  static void area(int l,int b)
  {
      float ar;
      ar=l*b;
      System.out.println("area of rectangle is---->"+ar);
  }
    public static void main(String[] args)
    {
        area(2);
        area(3,4);


    }

}
```

OUTPUT -3




```java
// 4. WAP to overload the constructor of Perim class which will find the perimeter of circle and rectangle.

class perim


{
  perim(int r)
  {
      double ar;
      ar= 3.14*2*r;
      System.out.println("perim of circle is---->"+ar);
  }

  perim(int l,int b)
  {
      float ar;
      ar=2*(l+b);
      System.out.println("perim of rectangle is---->"+ar);
  }
}

class q4_constructor
{
```

```
    public static void main(String[] args)
    {
       perim s2= new perim(2);
       perim s3=new  perim(3,4);


    }

}
```

OUTPUT -4