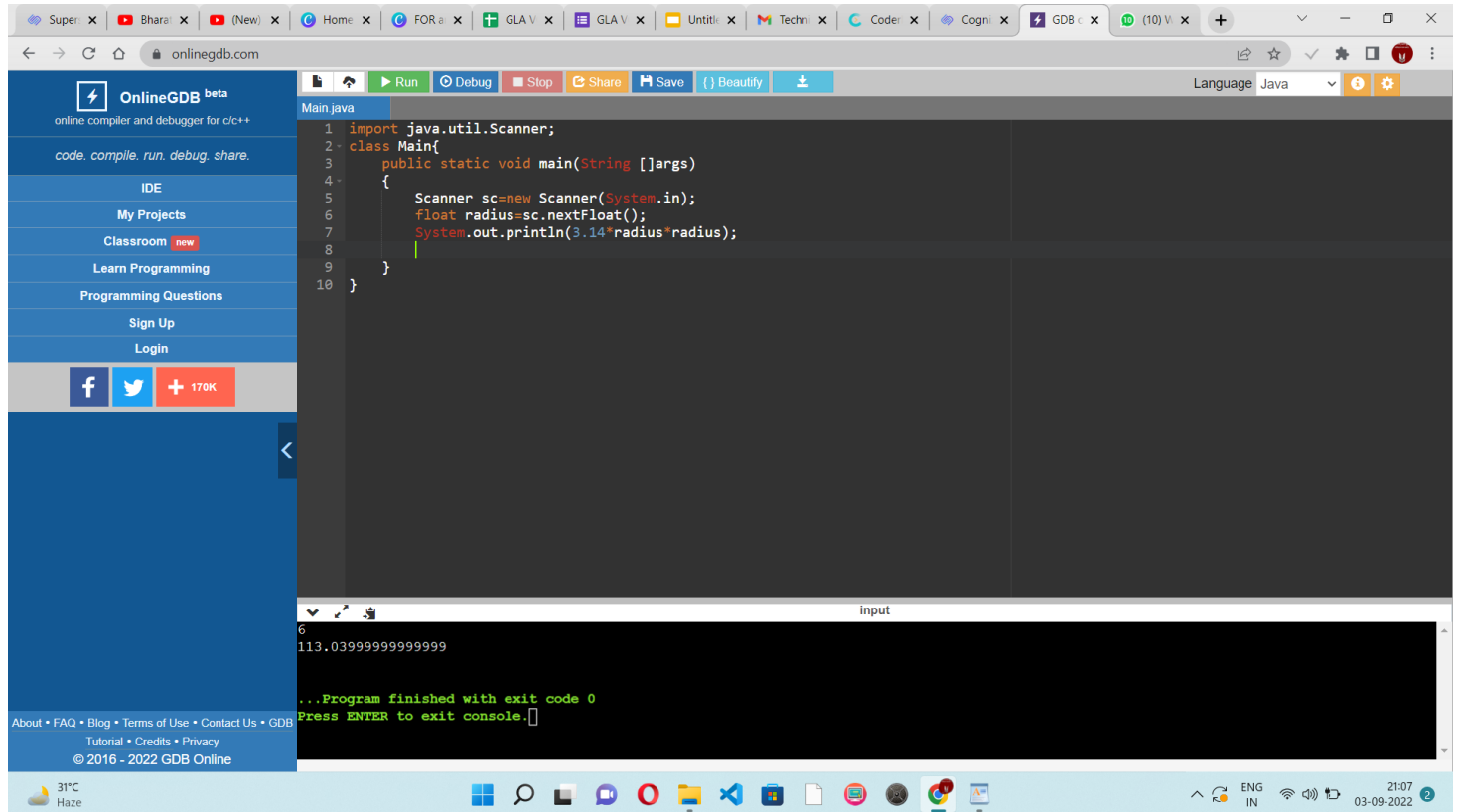


# Assignment No. – 1

## (JAVA)

Q 1 – Find the Area of Circle Using Java Code ?

Sol.



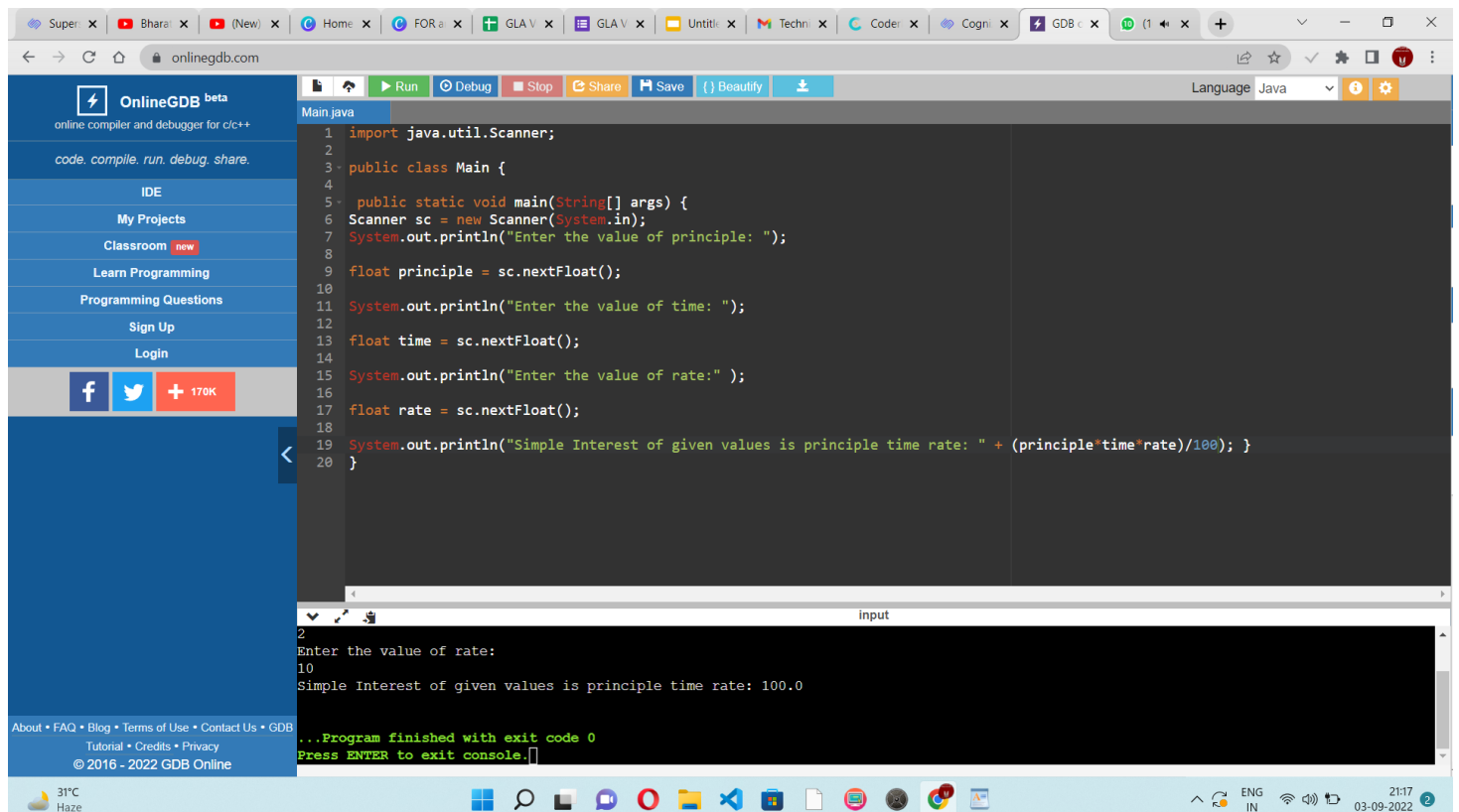
The screenshot shows the OnlineGDB IDE interface. The code editor contains the following Java code:

```
1 import java.util.Scanner;
2 class Main{
3     public static void main(String []args)
4     {
5         Scanner sc=new Scanner(System.in);
6         float radius=sc.nextFloat();
7         System.out.println(3.14*radius*radius);
8     }
9 }
10
```

The console output shows the input value 113.03999999999999 and the program finished with exit code 0.

Q 2 – Find the Area of Square Using Java Code ?

Sol.



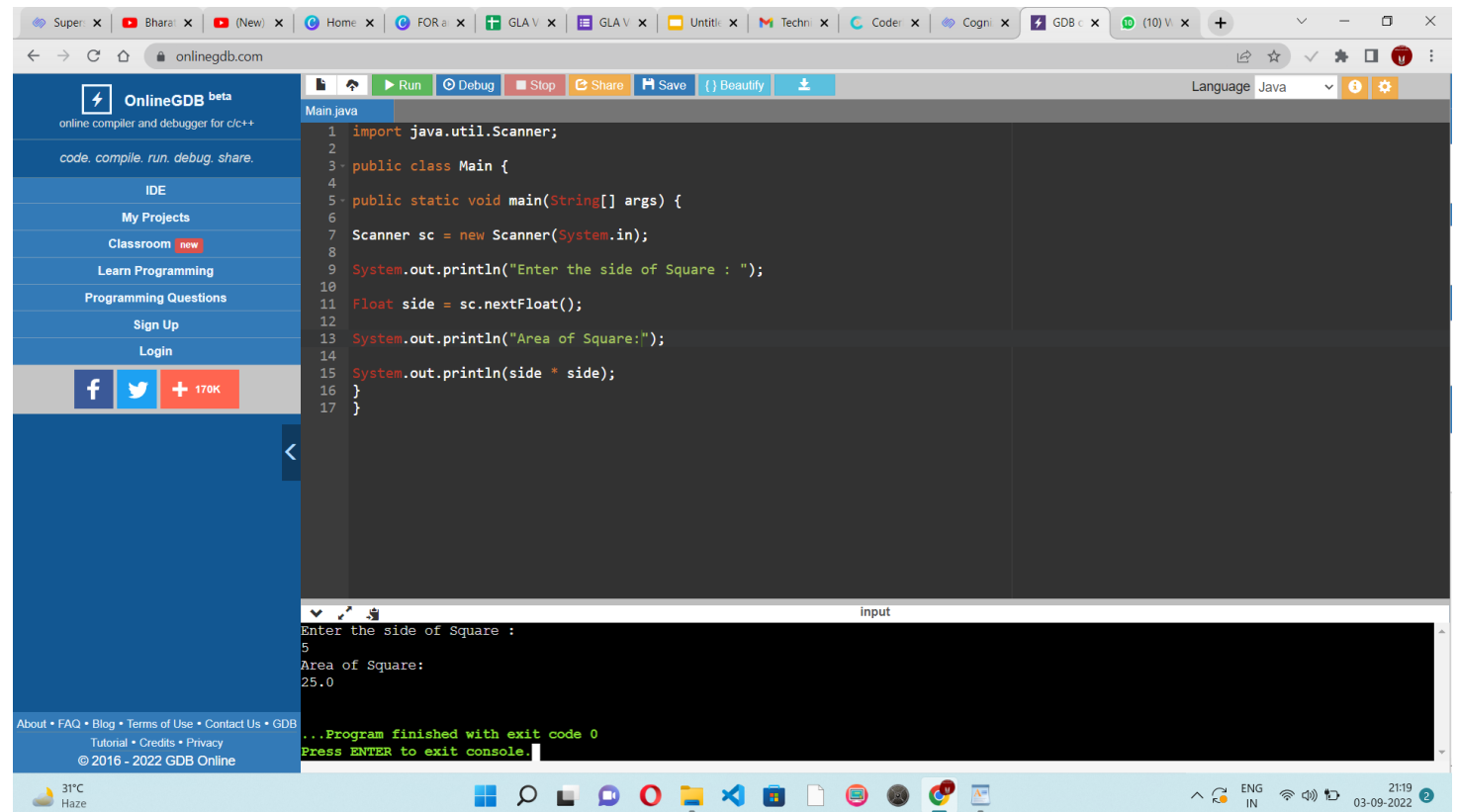
The screenshot shows the OnlineGDB IDE interface. The code editor contains the following Java code:

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6         Scanner sc = new Scanner(System.in);
7         System.out.println("Enter the value of principle: ");
8
9         float principle = sc.nextFloat();
10
11         System.out.println("Enter the value of time: ");
12
13         float time = sc.nextFloat();
14
15         System.out.println("Enter the value of rate: ");
16
17         float rate = sc.nextFloat();
18
19         System.out.println("Simple Interest of given values is principle time rate: " + (principle*time*rate)/100);
20     }
21 }
```

The console output shows the input values 10 and 100.0, and the program finished with exit code 0.

### Q 3 – Find the Simple Interest Using Java Code ?

Sol.



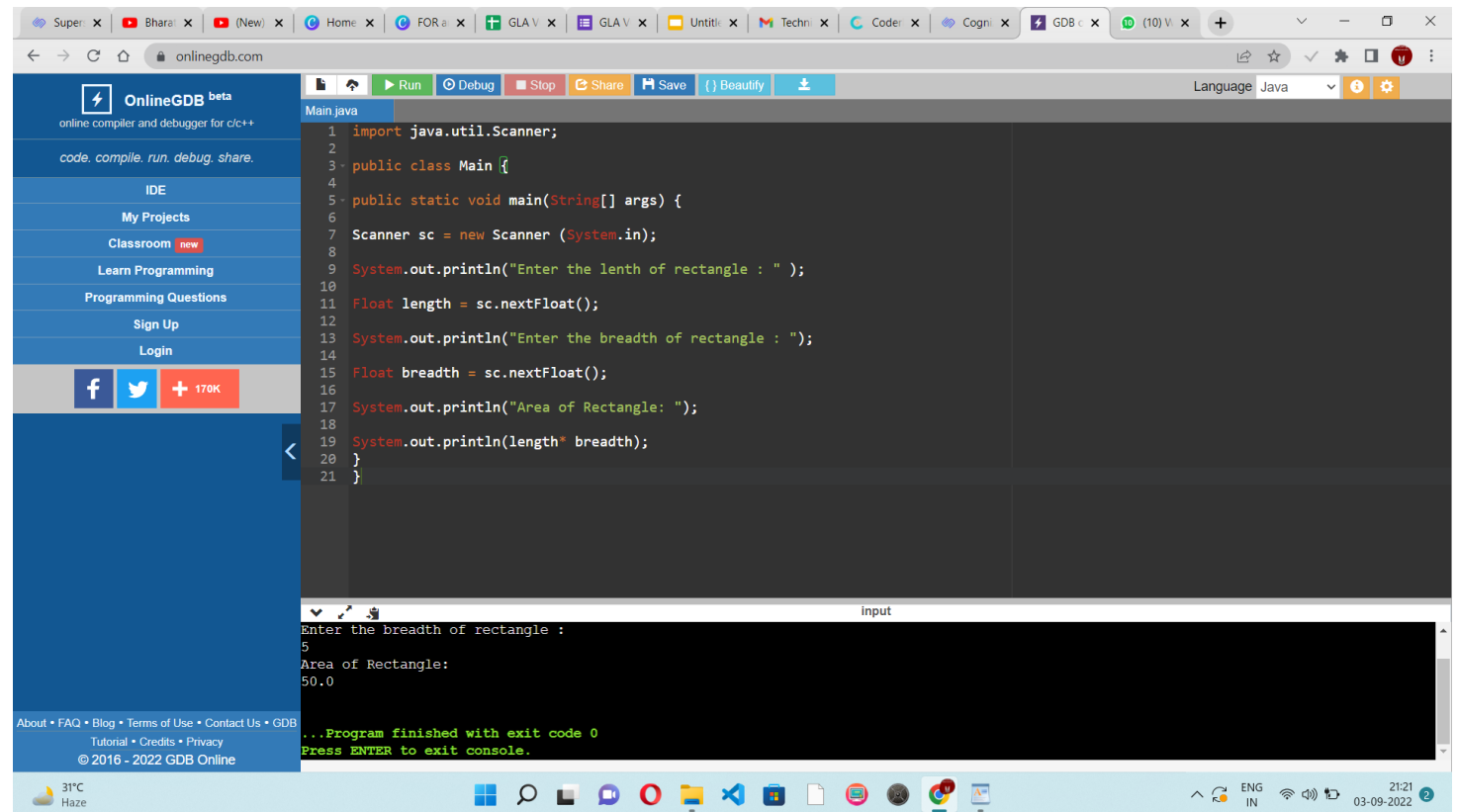
The screenshot shows the OnlineGDB IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a '+ 170K' button. The main editor area displays a Java program for calculating the area of a square. The code is as follows:

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8
9         System.out.println("Enter the side of Square : ");
10
11         Float side = sc.nextFloat();
12
13         System.out.println("Area of Square:");
14
15         System.out.println(side * side);
16     }
17 }
```

The output window at the bottom shows the program's execution: "Enter the side of Square : 5", "Area of Square: 25.0", and "...Program finished with exit code 0". The status bar at the bottom indicates the temperature is 31°C and the date is 03-09-2022.

### Q 4 – Find the Area of Rectangle Using Java Code ?

Sol.



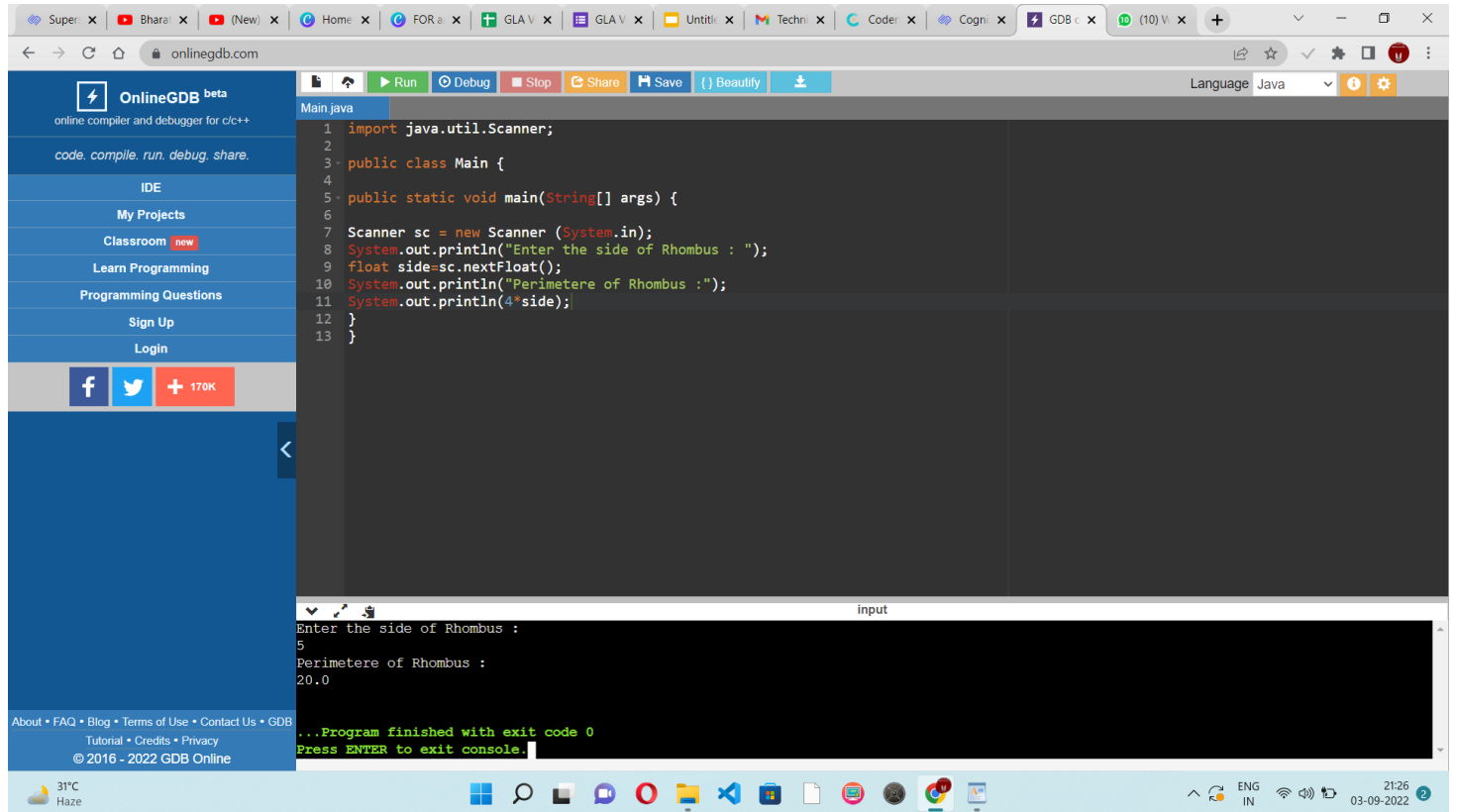
The screenshot shows the OnlineGDB IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a '+ 170K' button. The main editor area displays a Java program for calculating the area of a rectangle. The code is as follows:

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner (System.in);
8
9         System.out.println("Enter the lenth of rectangle : ");
10
11         Float length = sc.nextFloat();
12
13         System.out.println("Enter the breadth of rectangle : ");
14
15         Float breadth = sc.nextFloat();
16
17         System.out.println("Area of Rectangle: ");
18
19         System.out.println(length* breadth);
20     }
21 }
```

The output window at the bottom shows the program's execution: "Enter the breadth of rectangle : 5", "Area of Rectangle: 50.0", and "...Program finished with exit code 0". The status bar at the bottom indicates the temperature is 31°C and the date is 03-09-2022.

## Q 5 – Find the Perimeter of Rhombus Using Java Code ?

Sol.



The screenshot shows the OnlineGDB IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a '+ 170K' badge. The main editor area displays the following Java code:

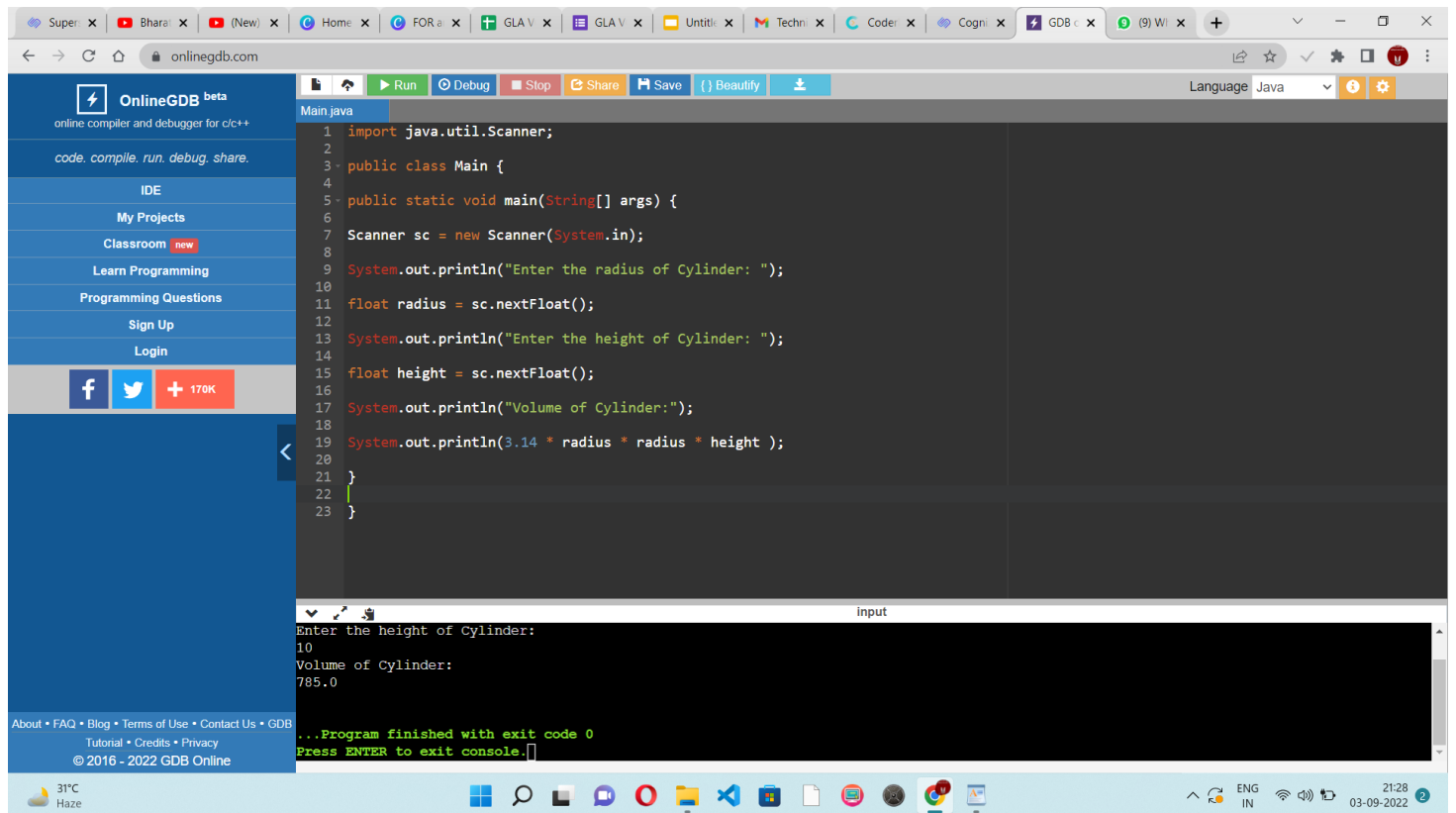
```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8         System.out.println("Enter the side of Rhombus : ");
9         float side=sc.nextFloat();
10        System.out.println("Perimetre of Rhombus :");
11        System.out.println(4*side);
12    }
13 }
```

The output console at the bottom shows the program's execution:

```
Enter the side of Rhombus :
5
Perimetre of Rhombus :
20.0
...Program finished with exit code 0
Press ENTER to exit console.
```

## Q 6 – Find the Volume of Cylinder Using Java Code ?

Sol.



The screenshot shows the OnlineGDB IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a '+ 170K' badge. The main editor area displays the following Java code:

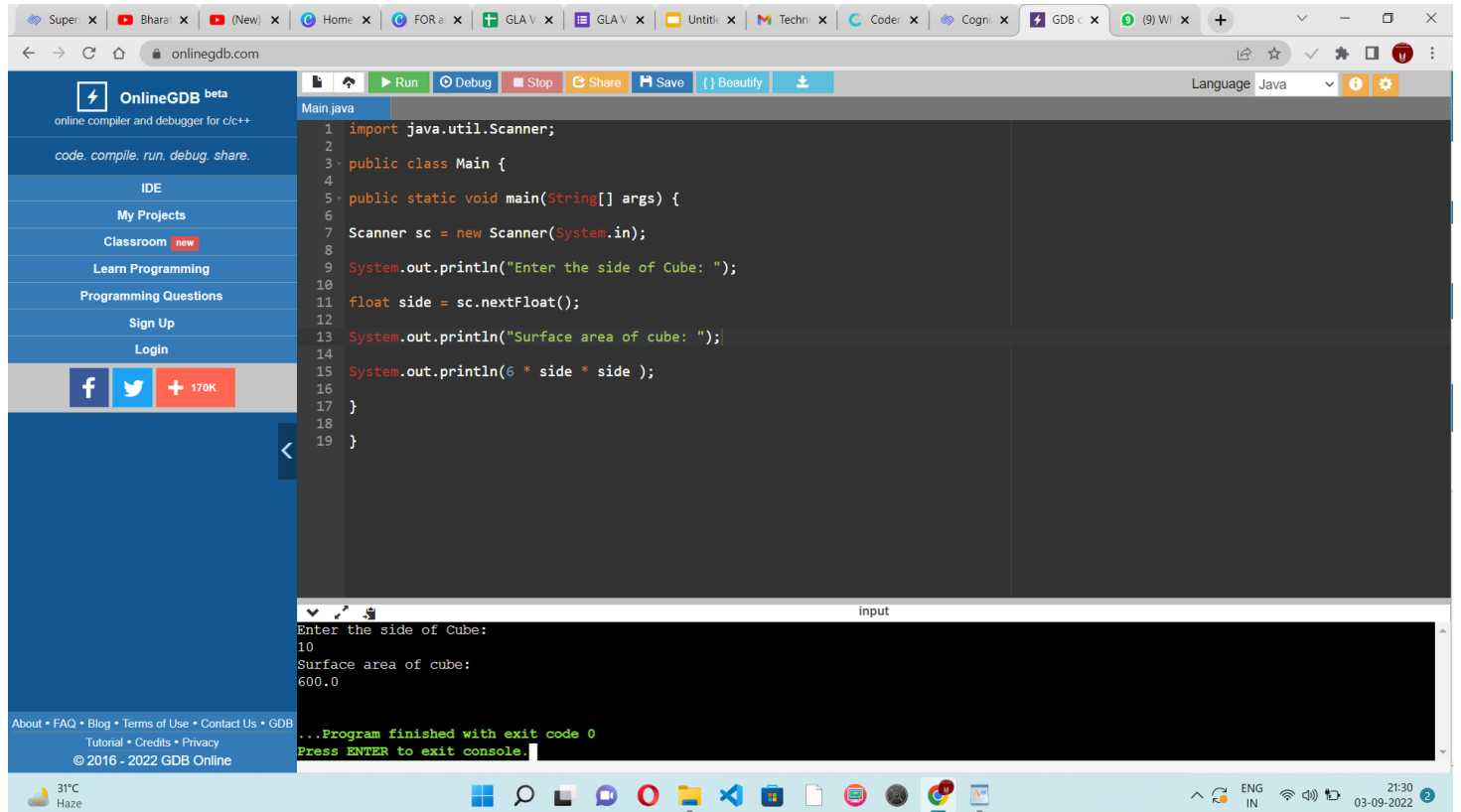
```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8
9         System.out.println("Enter the radius of Cylinder: ");
10        float radius = sc.nextFloat();
11
12        System.out.println("Enter the height of Cylinder: ");
13        float height = sc.nextFloat();
14
15        System.out.println("Volume of Cylinder:");
16
17        System.out.println(3.14 * radius * radius * height );
18
19    }
20
21 }
22
23 }
```

The output console at the bottom shows the program's execution:

```
Enter the height of Cylinder:
10
Volume of Cylinder:
785.0
...Program finished with exit code 0
Press ENTER to exit console.
```

## Q 7 – Find the Surface area of Cube Using Java Code ?

Sol.



The screenshot shows the OnlineGDB IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a +170K badge. The main editor area displays the following Java code:

```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8
9         System.out.println("Enter the side of Cube: ");
10        float side = sc.nextFloat();
11
12        System.out.println("Surface area of cube: ");
13
14        System.out.println(6 * side * side );
15
16    }
17
18 }
19 }
```

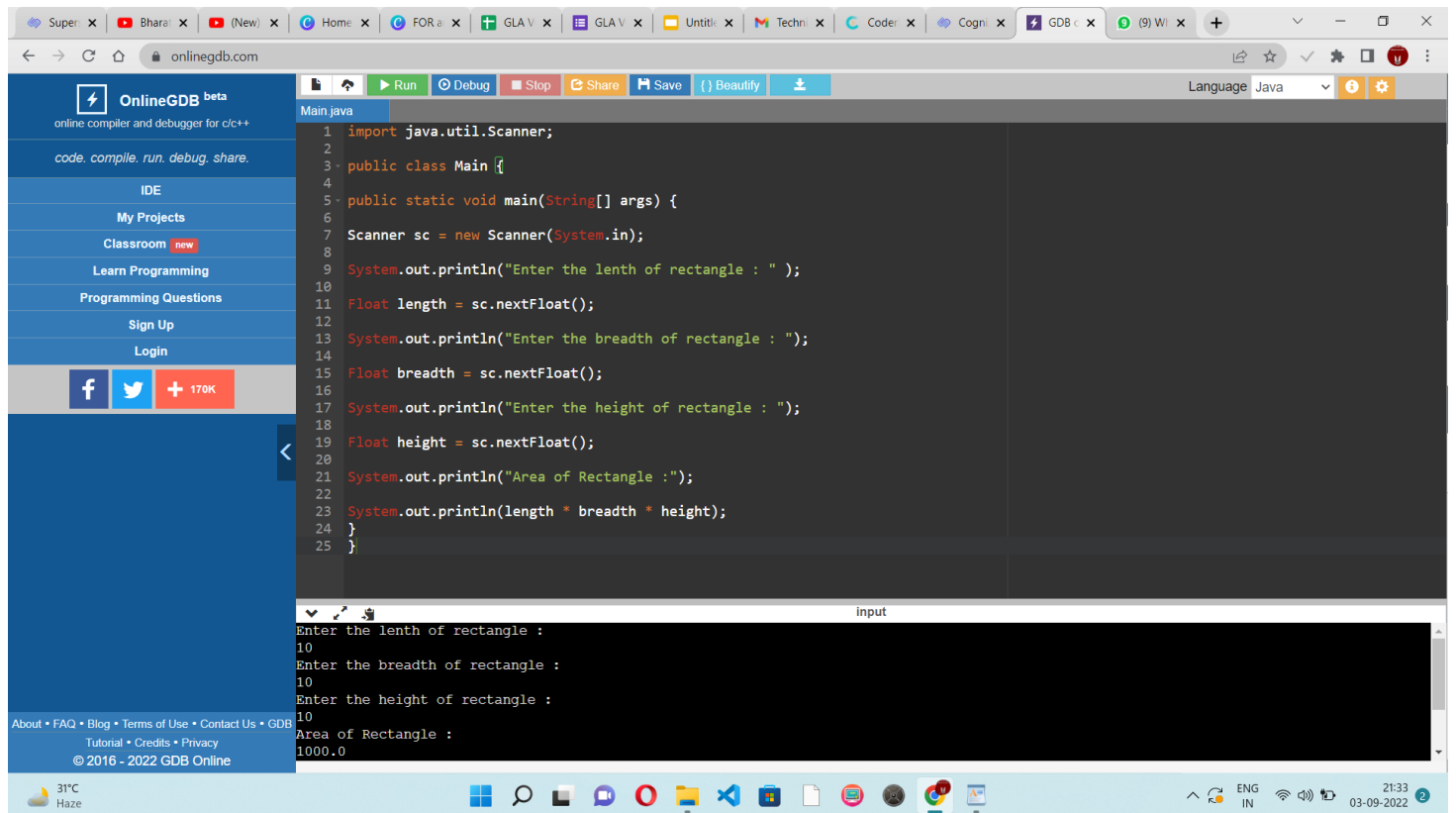
The output console at the bottom shows the execution results:

```
Enter the side of Cube:
10
Surface area of cube:
600.0

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

## Q 8 – Find the Volume of Cuboid Using Java Code ?

Sol.



The screenshot shows the OnlineGDB IDE interface. The left sidebar contains navigation links: IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. Below these are social media icons for Facebook, Twitter, and a +170K badge. The main editor area displays the following Java code:

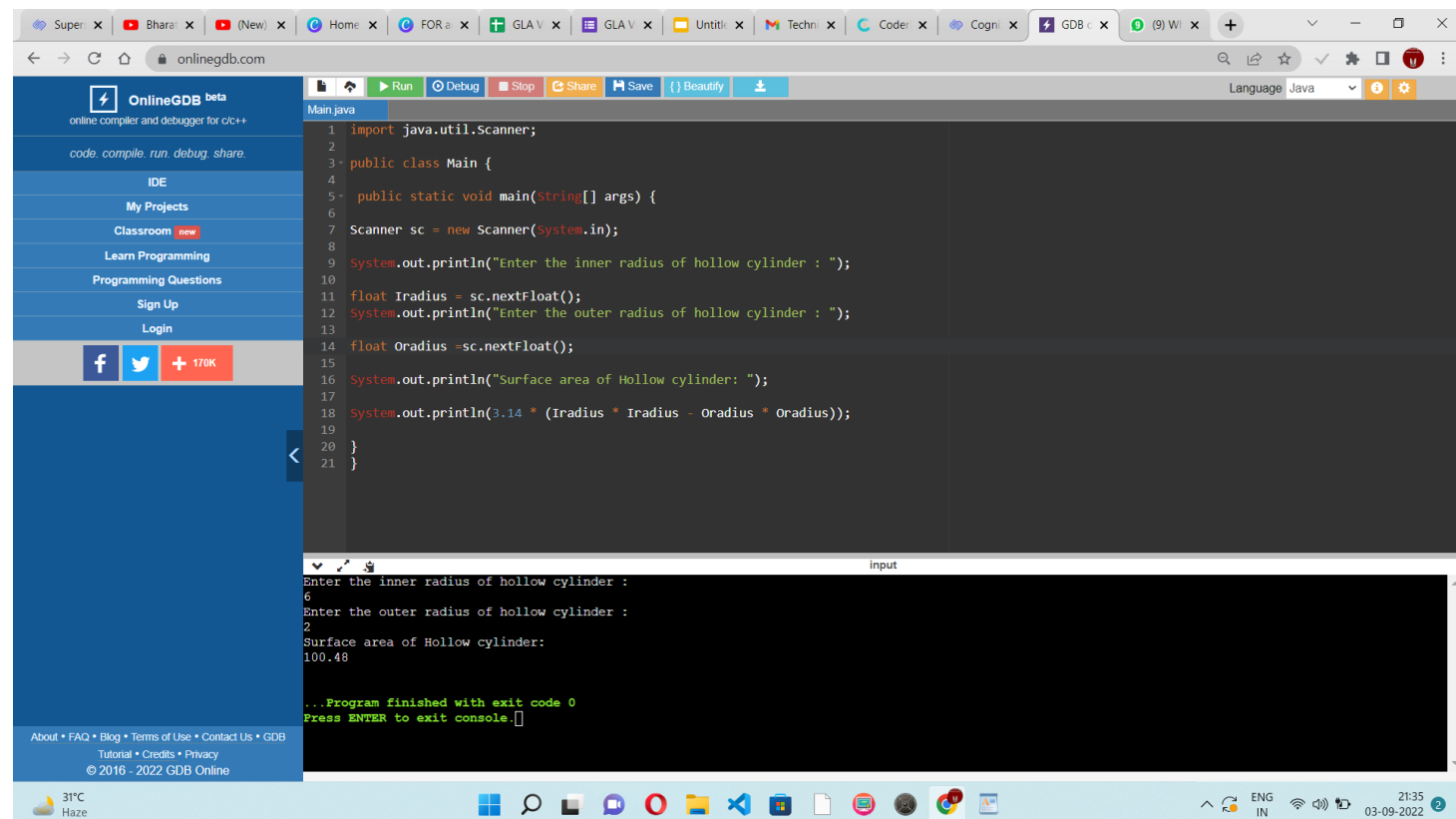
```
1 import java.util.Scanner;
2
3 public class Main {
4
5     public static void main(String[] args) {
6
7         Scanner sc = new Scanner(System.in);
8
9         System.out.println("Enter the leneth of rectangle : ");
10        Float length = sc.nextFloat();
11
12        System.out.println("Enter the breadth of rectangle : ");
13        Float breadth = sc.nextFloat();
14
15        System.out.println("Enter the height of rectangle : ");
16        Float height = sc.nextFloat();
17
18        System.out.println("Area of Rectangle :");
19
20        System.out.println(length * breadth * height);
21    }
22
23 }
24
25 }
```

The output console at the bottom shows the execution results:

```
Enter the leneth of rectangle :
10
Enter the breadth of rectangle :
10
Enter the height of rectangle :
10
Area of Rectangle :
1000.0
```

## Q 9 – Find the Surface Area of Hollow Cylinder Using Java Code ?

Sol.



The screenshot shows the OnlineGDB IDE interface. The code editor displays a Java program to calculate the surface area of a hollow cylinder. The code is as follows:

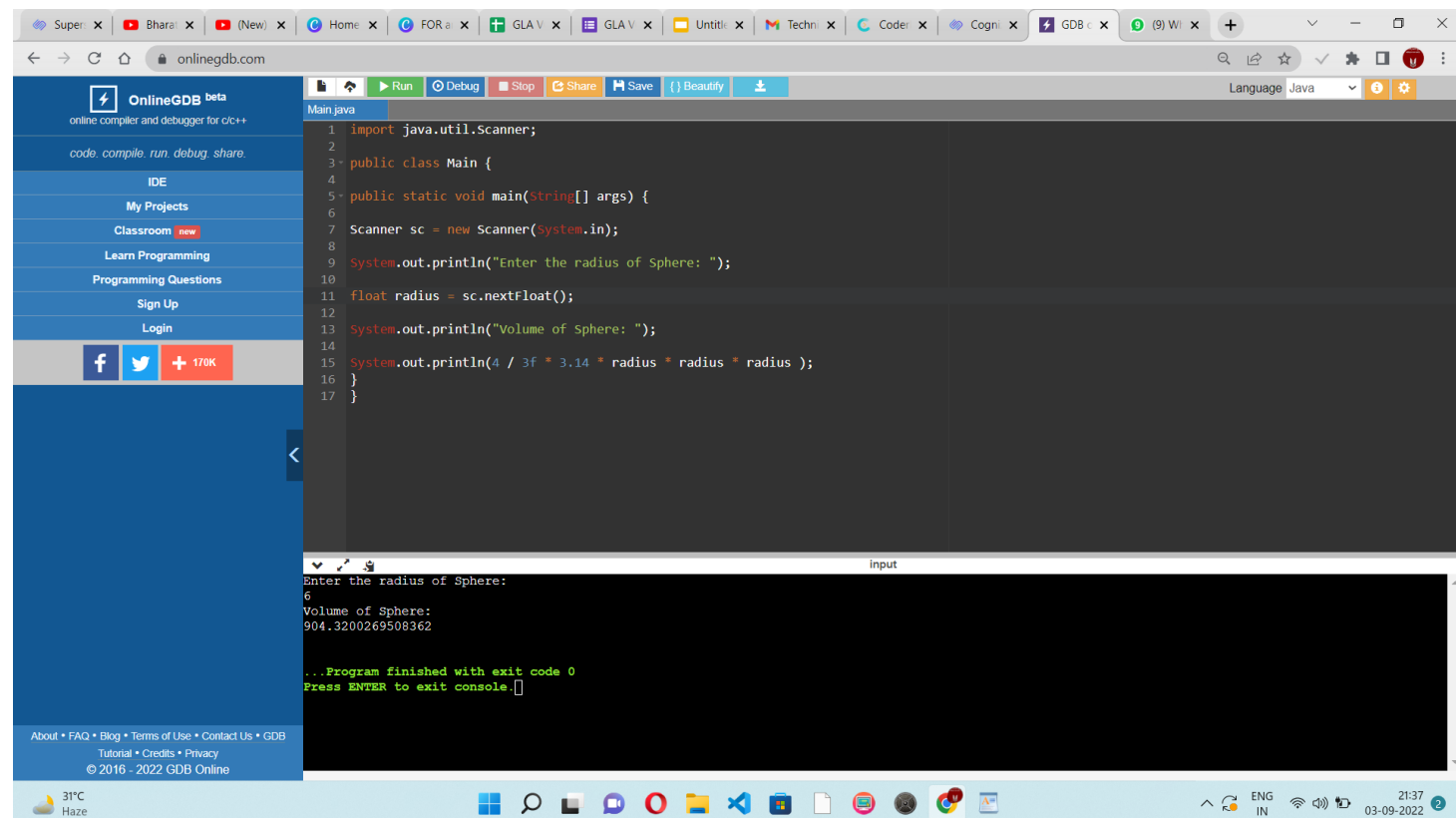
```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5
6         Scanner sc = new Scanner(System.in);
7
8         System.out.println("Enter the inner radius of hollow cylinder : ");
9
10        float Iradius = sc.nextFloat();
11        System.out.println("Enter the outer radius of hollow cylinder : ");
12
13        float Oradius = sc.nextFloat();
14
15        System.out.println("Surface area of Hollow cylinder: ");
16
17        System.out.println(3.14 * (Iradius * Iradius + Oradius * Oradius));
18
19    }
20 }
21 }
```

The input/output window shows the following interaction:

```
Enter the inner radius of hollow cylinder :
6
Enter the outer radius of hollow cylinder :
2
Surface area of Hollow cylinder:
100.48
...Program finished with exit code 0
Press ENTER to exit console.
```

## Q 10 – Find the Volume of Sphere Using Java Code ?

Sol.



The screenshot shows the OnlineGDB IDE interface. The code editor displays a Java program to calculate the volume of a sphere. The code is as follows:

```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5
6         Scanner sc = new Scanner(System.in);
7
8         System.out.println("Enter the radius of Sphere: ");
9
10        float radius = sc.nextFloat();
11
12        System.out.println("Volume of Sphere: ");
13
14        System.out.println(4 / 3f * 3.14 * radius * radius * radius );
15    }
16 }
17 }
```

The input/output window shows the following interaction:

```
Enter the radius of Sphere:
6
Volume of Sphere:
904.3200269508362
...Program finished with exit code 0
Press ENTER to exit console.
```