1. Welcome to Bridgelabz!

```
public class Welcome {
    public static void main(String[] args) {
        System.out.println("Welcome to Bridgelabz!");
    }
}
```

2. Add Two Numbers

```
import java.util.Scanner;

public class AddNumbers {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter first number: ");
        double num1 = sc.nextDouble();
        System.out.print("Enter second number: ");
        double num2 = sc.nextDouble();
        double sum = num1 + num2;
        System.out.println("The sum is: " + sum);
    }
}
```

3. Celsius to Fahrenheit Conversion

```
import java.util.Scanner;

public class CelsiusToFahrenheit {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter temperature in Celsius: ");
        double celsius = sc.nextDouble();
        double fahrenheit = (celsius * 9 / 5) + 32;
        System.out.println("Temperature in Fahrenheit: " + fahrenheit);
    }
}
```

4. Area of a Circle

```
import java.util.Scanner;

public class AreaOfCircle {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter radius of the circle: ");
        double radius = sc.nextDouble();
        double area = Math.PI * radius * radius;
        System.out.println("Area of the circle: " + area);
    }
}
```

5. Volume of a Cylinder

```
import java.util.Scanner;
```

```
public class VolumeOfCylinder {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter radius of the cylinder: ");
        double radius = sc.nextDouble();
        System.out.print("Enter height of the cylinder: ");
        double height = sc.nextDouble();
        double volume = Math.PI * radius * radius * height;
        System.out.println("Volume of the cylinder: " + volume);
    }
}
```

Self Problem 1. Calculate Simple Interest

```
import java.util.Scanner;

public class SimpleInterest {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter Principal: ");
        double principal = sc.nextDouble();
        System.out.print("Enter Rate of Interest: ");
        double rate = sc.nextDouble();
        System.out.print("Enter Time (in years): ");
        double time = sc.nextDouble();
        double si = (principal * rate * time) / 100;
        System.out.println("Simple Interest: " + si);
    }
}
```

Self Problem 2. Perimeter of a Rectangle

```
import java.util.Scanner;

public class PerimeterOfRectangle {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter length: ");
        double length = sc.nextDouble();
        System.out.print("Enter width: ");
        double width = sc.nextDouble();
        double perimeter = 2 * (length + width);
        System.out.println("Perimeter of the rectangle: " + perimeter);
    }
}
```

Self Problem 3. Power Calculation

```
import java.util.Scanner;

public class PowerCalculation {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter base: ");
```

```
        double base = sc.nextDouble();
        System.out.print("Enter exponent: ");
        double exponent = sc.nextDouble();
        double result = Math.pow(base, exponent);
        System.out.println("Result: " + result);
    }
}
```

Self Problem 4. Calculate Average of Three Numbers

```
import java.util.Scanner;

public class AverageOfThree {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter first number: ");
        double num1 = sc.nextDouble();
        System.out.print("Enter second number: ");
        double num2 = sc.nextDouble();
        System.out.print("Enter third number: ");
        double num3 = sc.nextDouble();
        double average = (num1 + num2 + num3) / 3;
        System.out.println("Average: " + average);
    }
}
```

Self Problem 5. Convert Kilometers to Miles

```
import java.util.Scanner;

public class KmToMiles {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter distance in kilometers: ");
        double km = sc.nextDouble();
        double miles = km * 0.621371;
        System.out.println("Distance in miles: " + miles);
    }
}
```