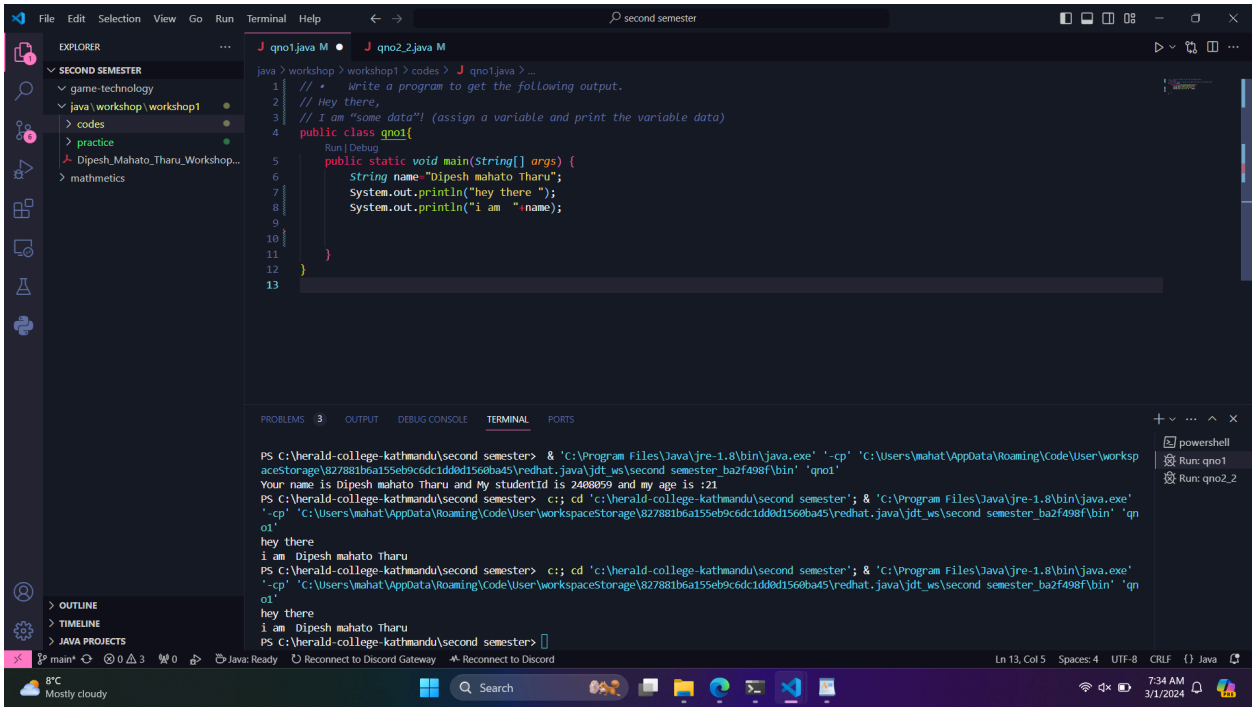
1 • Write a program to get the following output.

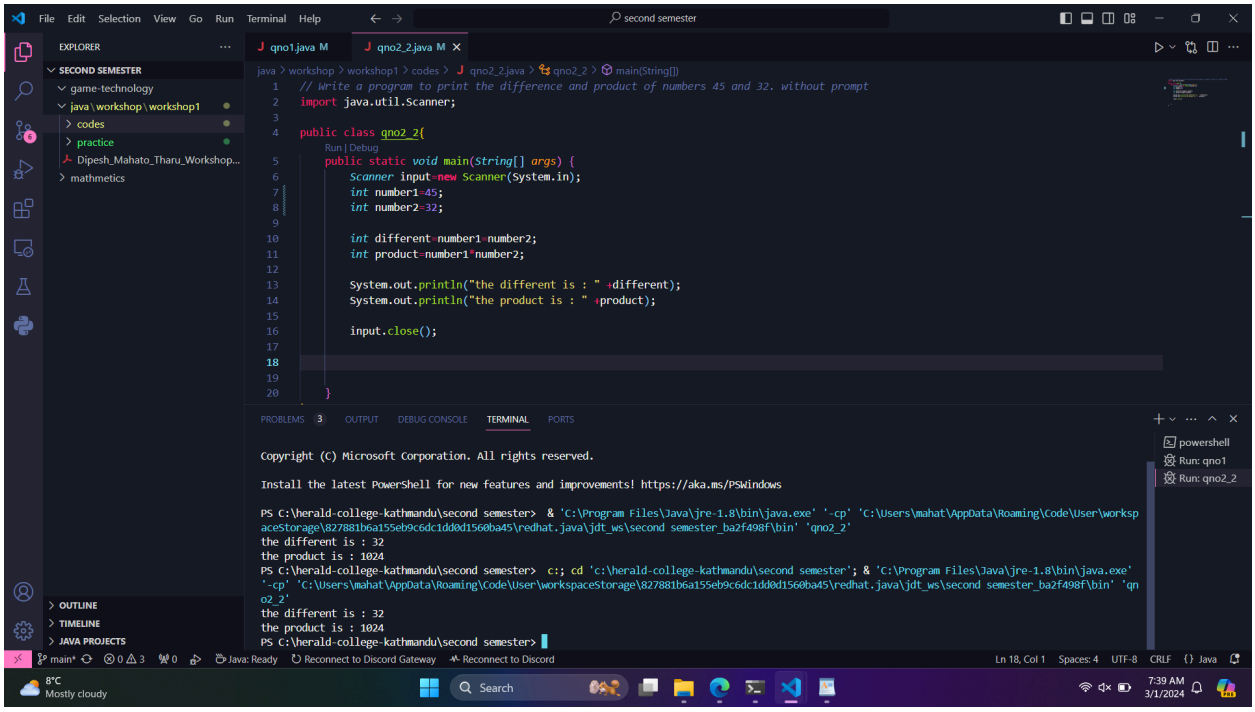
Hey there,

I am “some data”! (assign a variable and print the variable data)

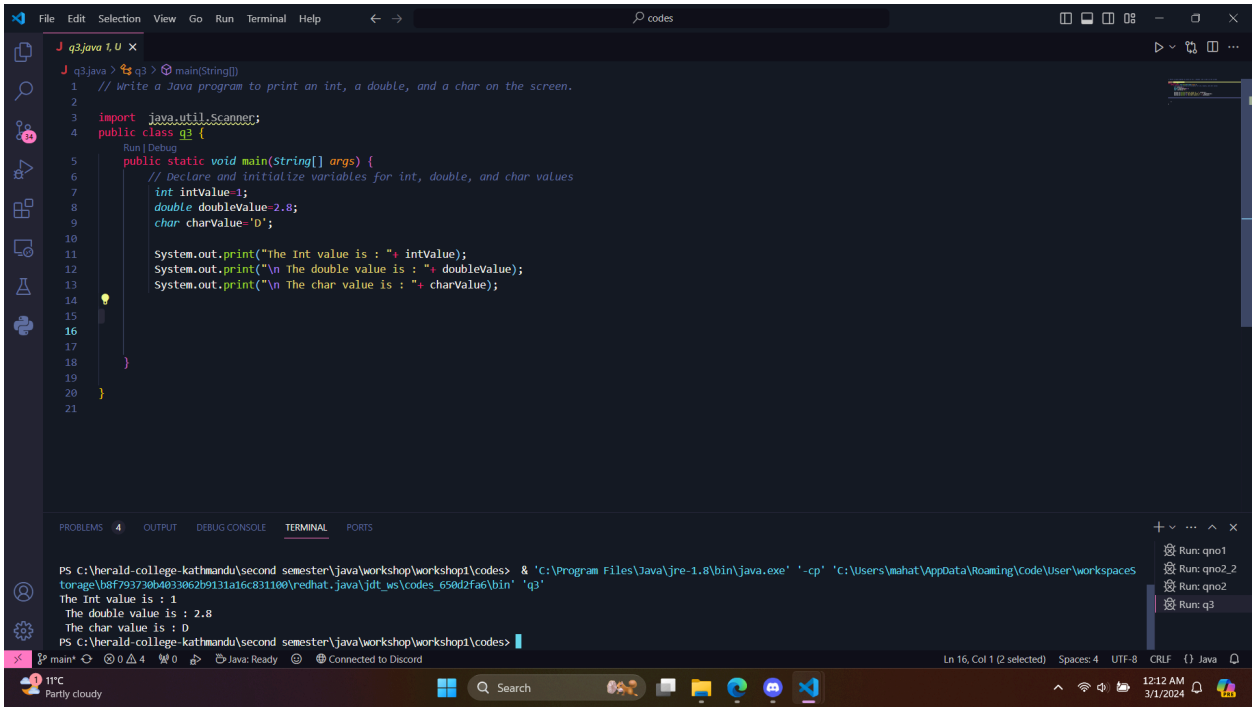


Write a program to print the difference and product of numbers 45 and 32.

Without prompt



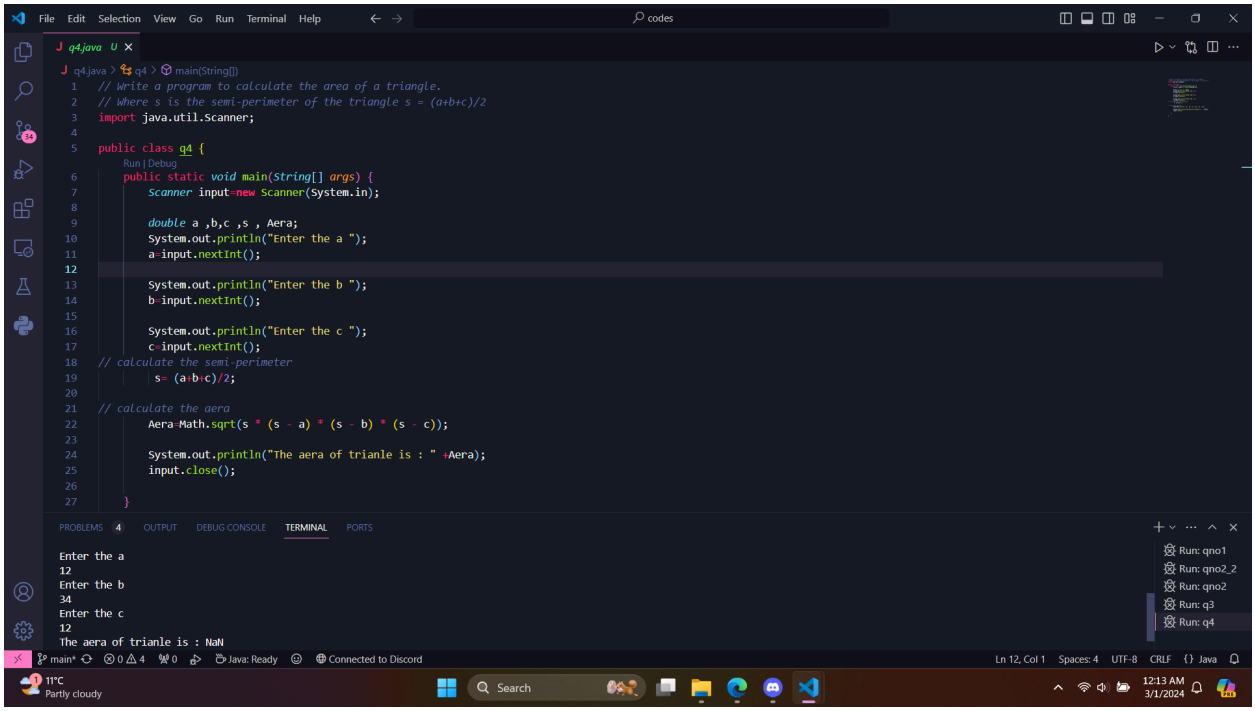
3 .Write a Java program to print an int, a double, and a char on the screen.



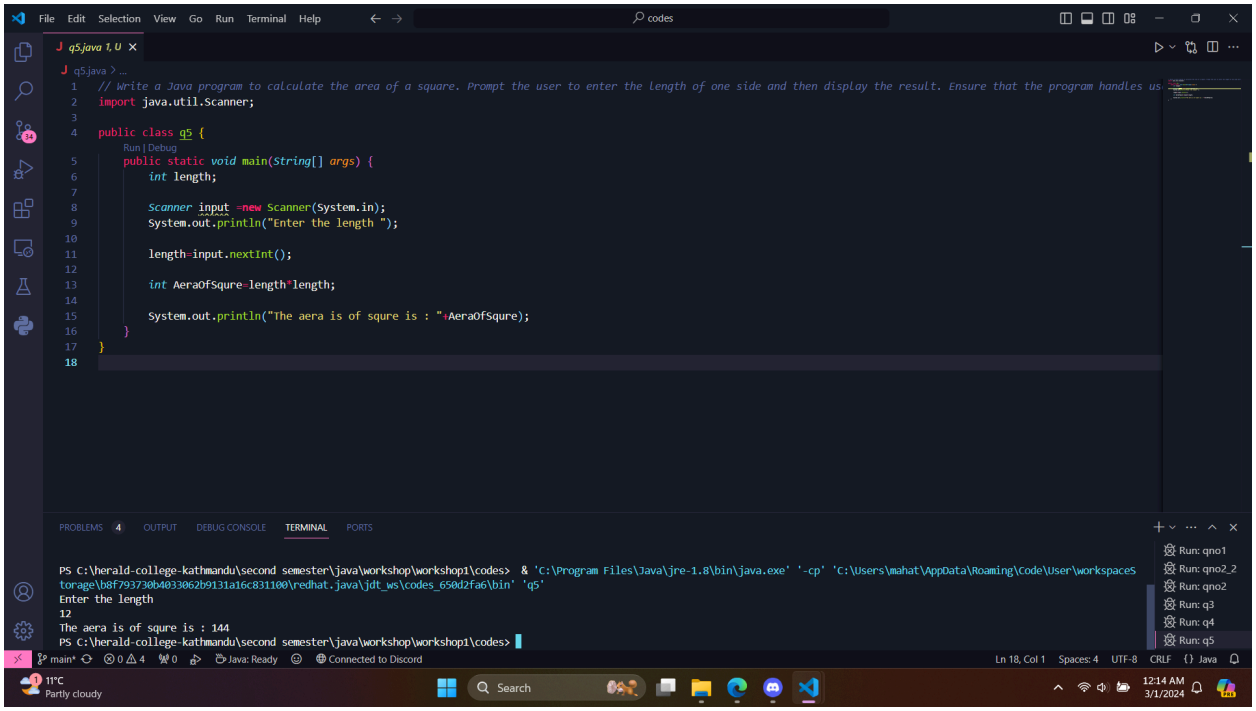
Write a program to calculate the area of a triangle.

$$A = \sqrt{s(s-a)(s-b)(s-c)}$$

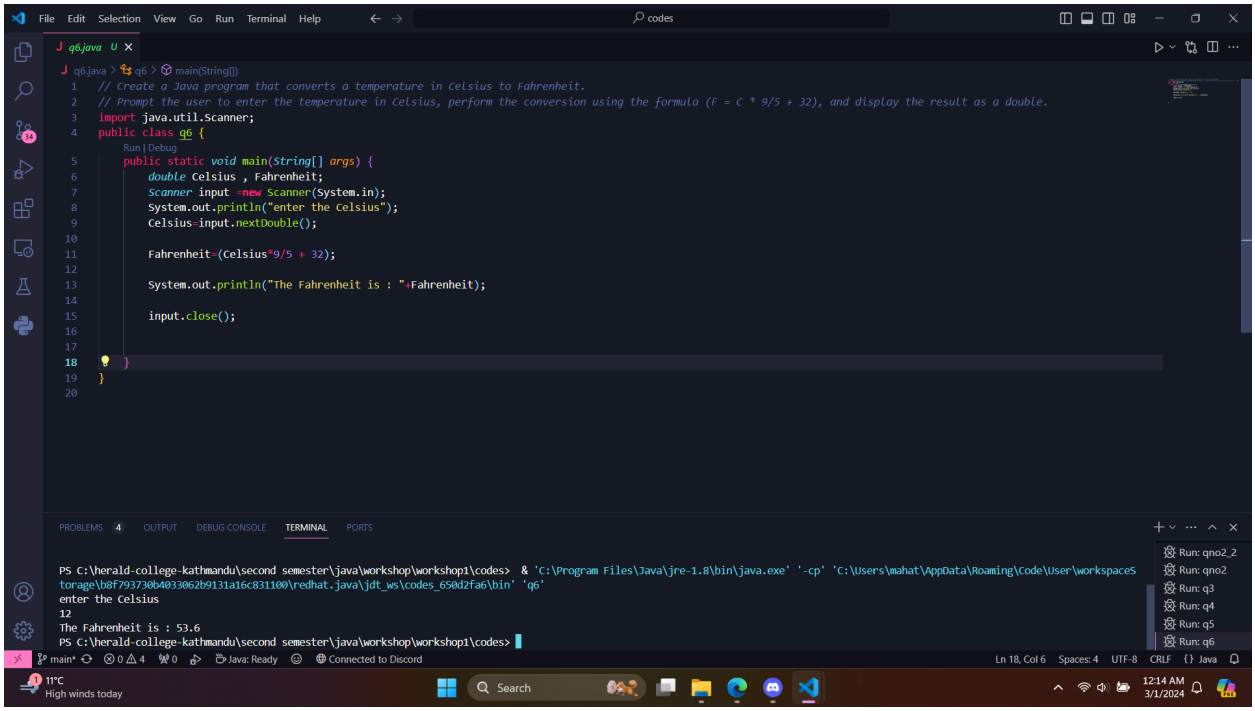
Where s is the semi-perimeter of the triangle s = (a+b+c)/2



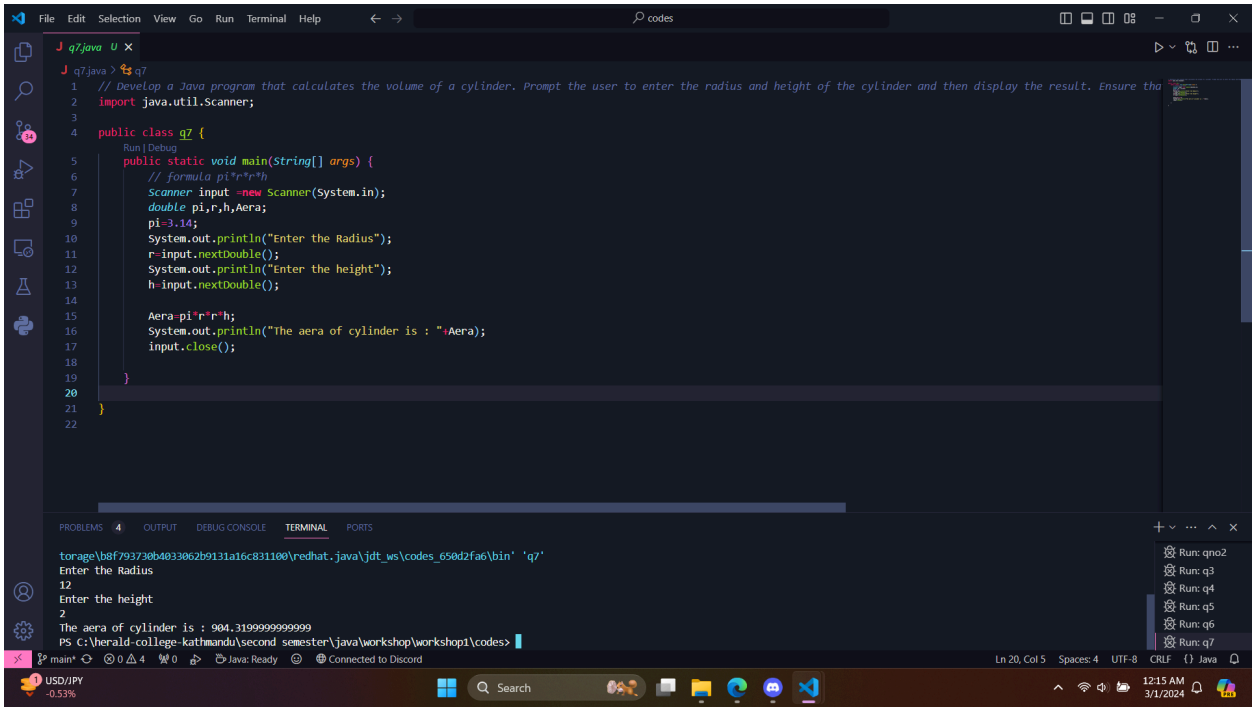
Write a Java program to calculate the area of a square. Prompt the user to enter the length of one side and then display the result. Ensure that the program handles user input as a double data type.



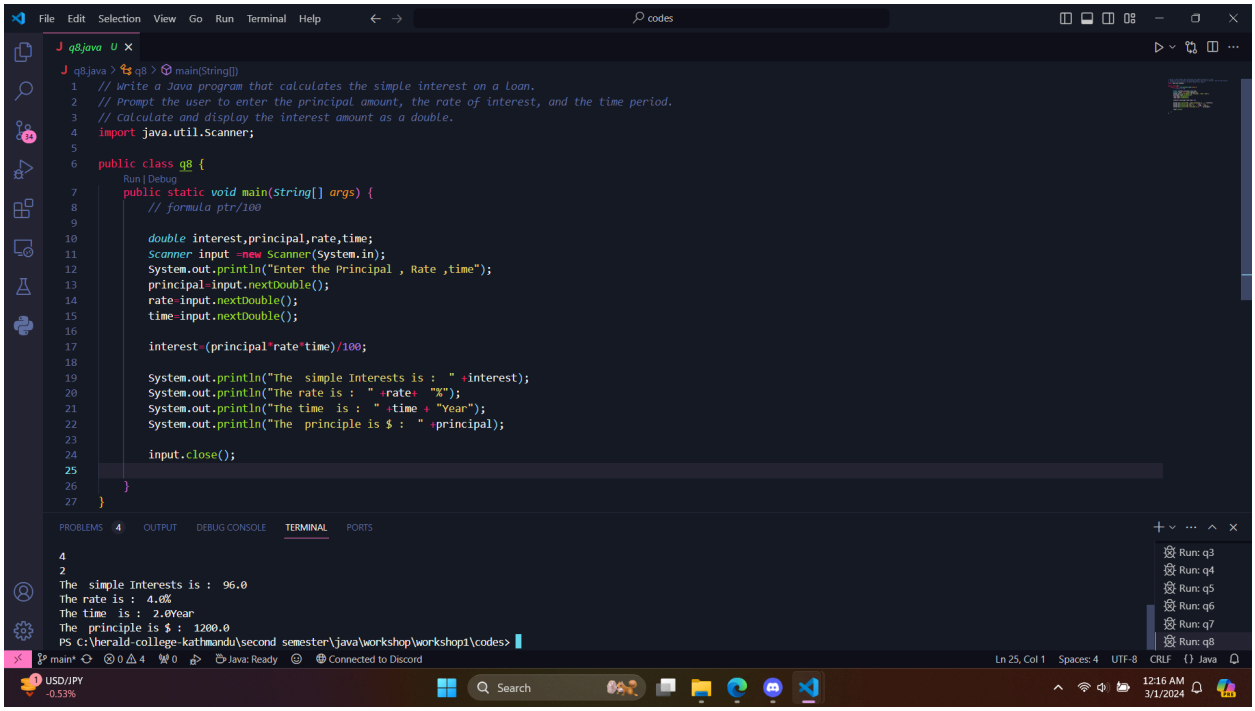
Create a Java program that converts a temperature in Celsius to Fahrenheit. Prompt the user to enter the temperature in Celsius, perform the conversion using the formula (F = C * 9/5 + 32), and display the result as a double.



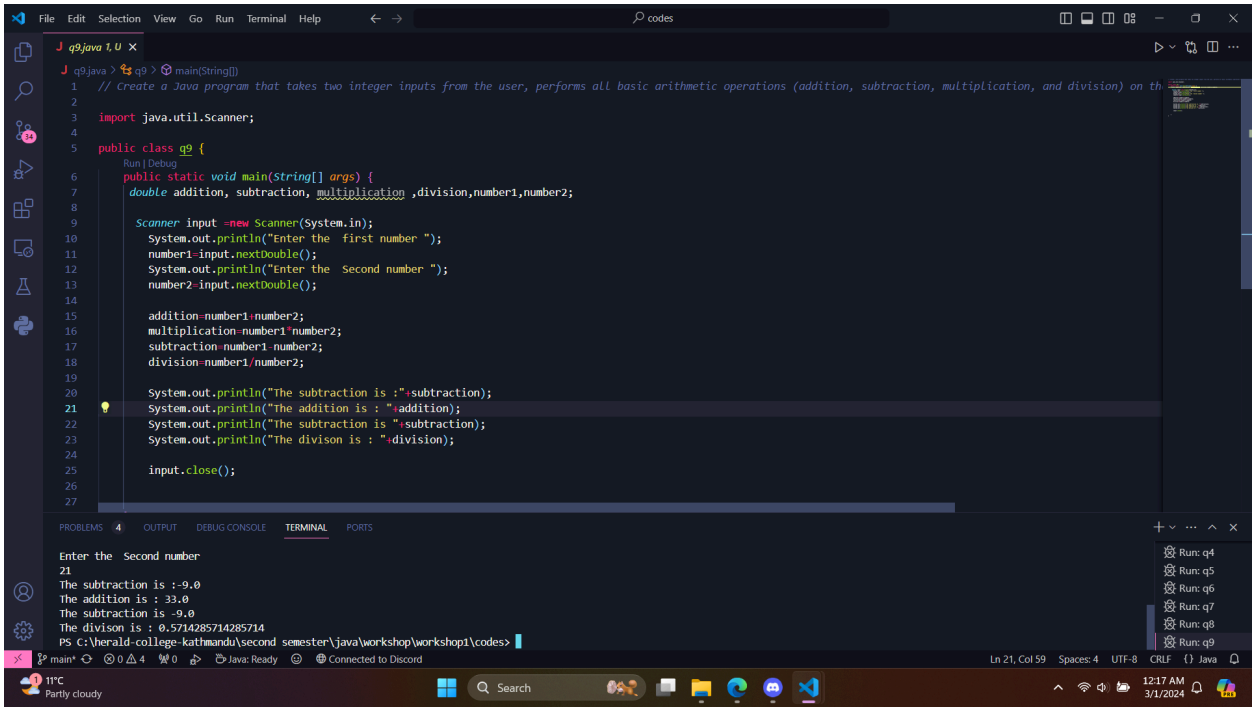
Develop a Java program that calculates the volume of a cylinder. Prompt the user to enter the radius and height of the cylinder and then display the result. Ensure that the program uses appropriate data types for calculation and output.



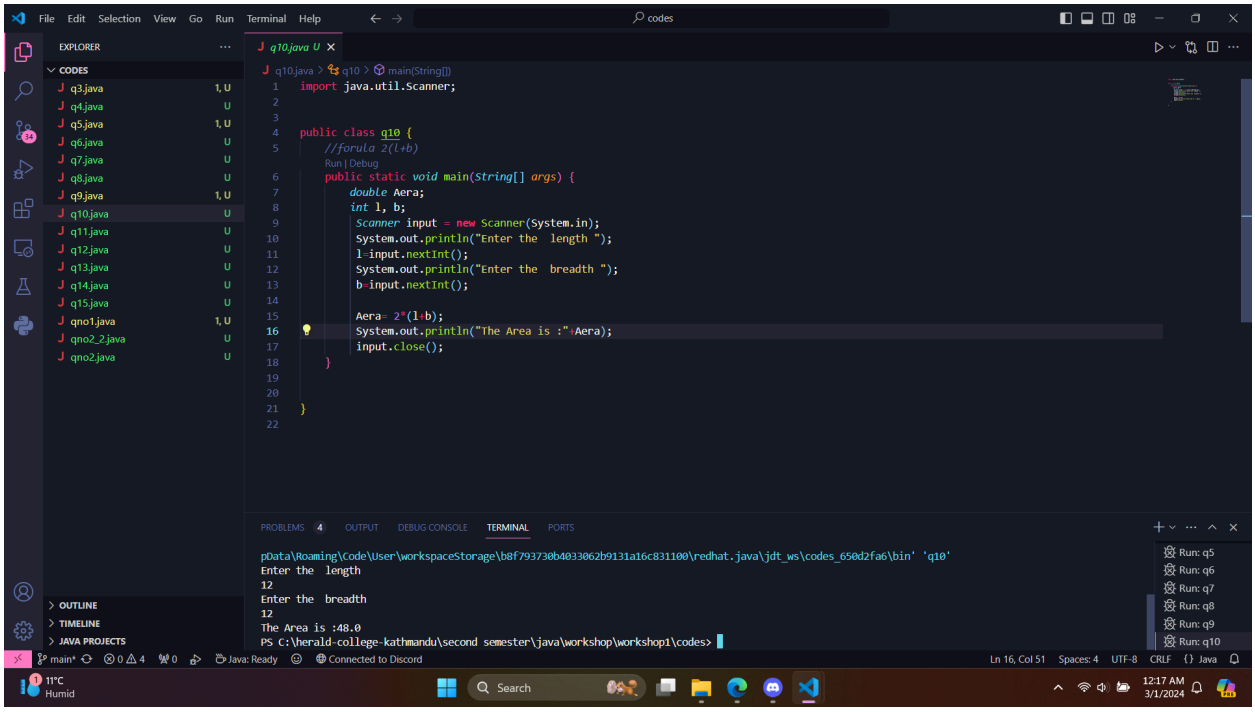
Write a Java program that calculates the simple interest on a loan. Prompt the user to enter the principal amount, the rate of interest, and the time period. Calculate and display the interest amount as a double.



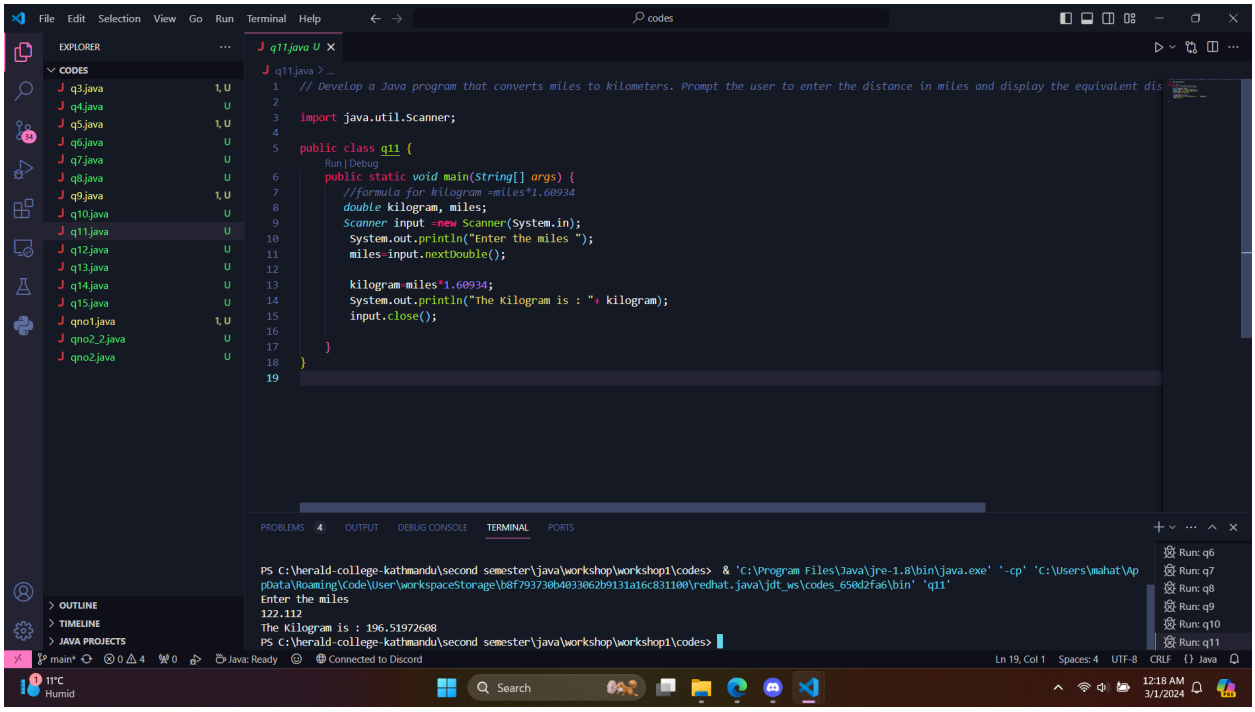
Create a Java program that takes two integer inputs from the user, performs all basic arithmetic operations (addition, subtraction, multiplication, and division) on these numbers, and displays the results.



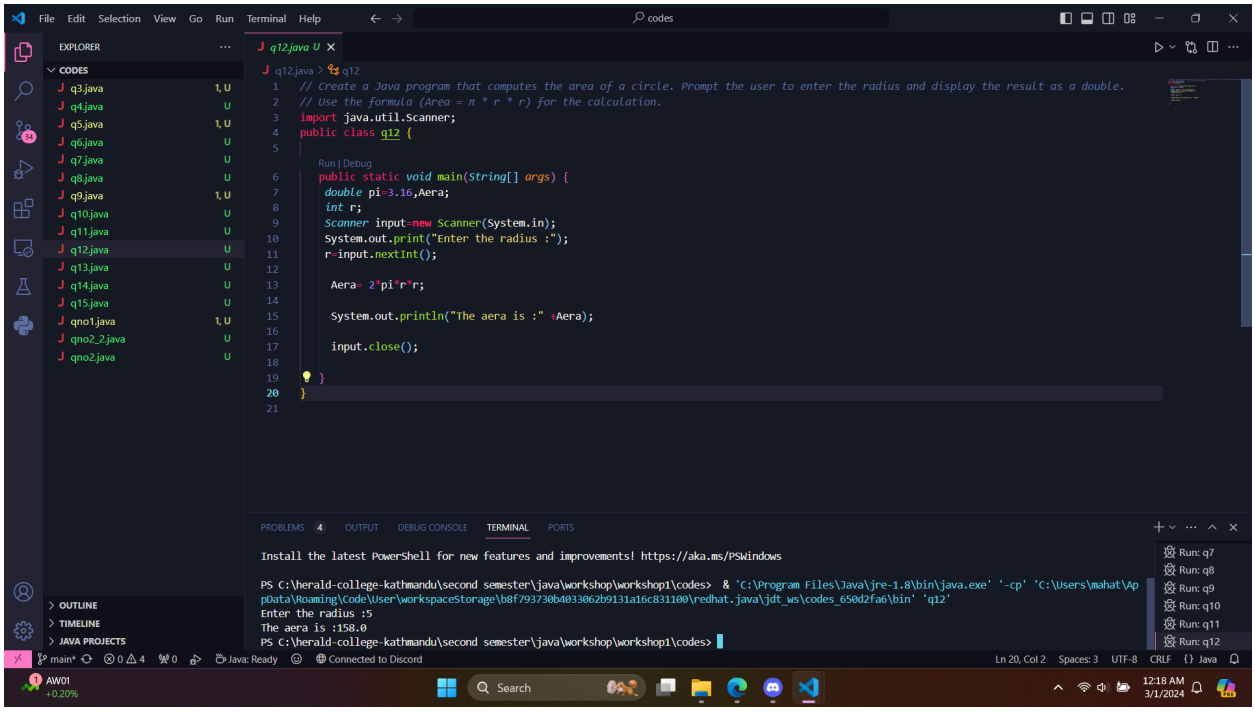
Write a Java program that calculates the perimeter of a rectangle. Prompt the user to enter the length and width of the rectangle, and then display the result. Use appropriate data types for calculation and output.



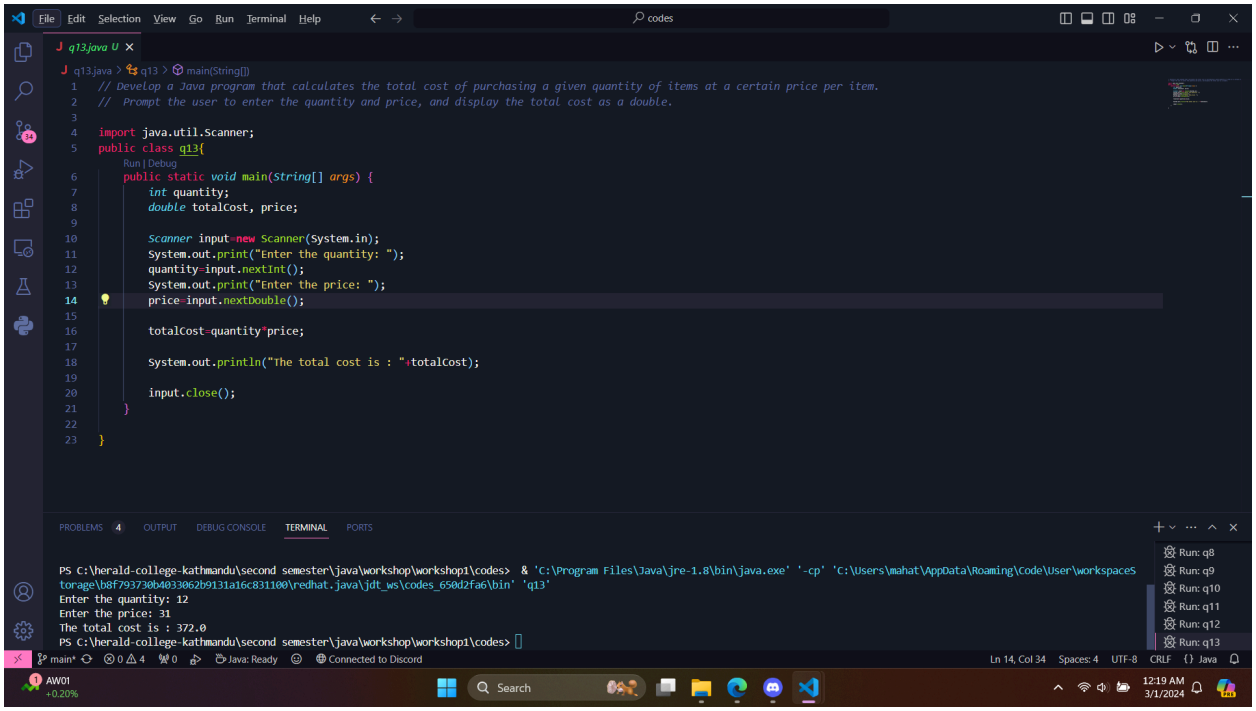
Develop a Java program that converts miles to kilometers. Prompt the user to enter the distance in miles and display the equivalent distance in kilometers as a double.



Create a Java program that computes the area of a circle. Prompt the user to enter the radius and display the result as a double. Use the formula (Area = π * r * r) for the calculation.



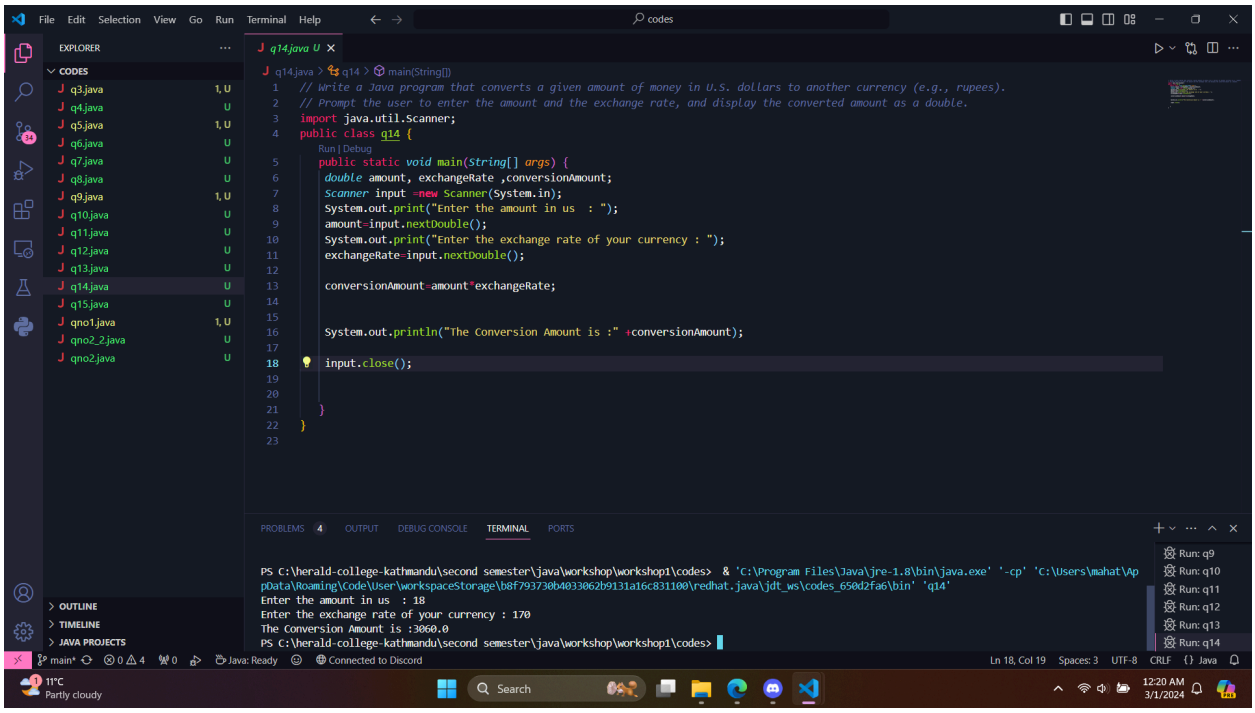
Develop a Java program that calculates the total cost of purchasing a given quantity of items at a certain price per item. Prompt the user to enter the quantity and price, and display the total cost as a double.



```java
// Develop a Java program that calculates the total cost of purchasing a given quantity of items at a certain price per item.
// Prompt the user to enter the quantity and price, and display the total cost as a double.

import java.util.Scanner;
public class q13{
    public static void main(String[] args) {
        int quantity;
        double totalCost, price;

        Scanner input=new Scanner(System.in);
        System.out.print("Enter the quantity: ");
        quantity=input.nextInt();
        System.out.print("Enter the price: ");
        price=input.nextDouble();

        totalCost=quantity*price;

        System.out.println("The total cost is : "+totalCost);

        input.close();
    }

}
```

```
PS C:\herald-college-kathmandu\second semester\java\workshop\workshop1\codes> & 'C:\Program Files\Java\jre-1.8\bin\java.exe' '-cp' 'C:\Users\mahat\AppData\Roaming\Code\User\workspaceStorage\b8f793730b4033062b9131a16c831100\redhat.java\jdt_ws\codes_650d2fa6\bin' 'q13'
Enter the quantity: 12
Enter the price: 31
The total cost is : 372.0
PS C:\herald-college-kathmandu\second semester\java\workshop\workshop1\codes>
```

Write a Java program that converts a given amount of money in U.S. dollars to another currency (e.g., rupees). Prompt the user to enter the amount and the exchange rate, and display the converted amount as a double.



Write a Java program that calculates and prints the sum, difference, product, and quotient of two given integers. Take user input for two integers and display the results.