```
1.Task 1
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Create a program that converts temperatures between
Celsius, Fahrenheit, and Kelvin scales.
import java.util.Scanner;
public class TemperatureConverter {
  public static double celsiusToFahrenheit(double c) {
    return (c *9/5) + 32;
  }
  public static double celsiusToKelvin(double c) {
    return c + 273.15;
  }
  public static double fahrenheitToCelsius(double f) {
    return (f - 32) * 5 / 9;
  }
  public static double fahrenheitToKelvin(double f) {
    return (f - 32) * 5 / 9 + 273.15;
  }
```

```
public static double kelvinToCelsius(double k) {
  return k - 273.15;
}
public static double kelvinToFahrenheit(double k) {
  return (k - 273.15) * 9 / 5 + 32;
}
public static void main(String[] args) {
  Scanner scanner = new Scanner(System.in);
  System.out.println("Temperature Converter");
  System.out.println("1. Celsius to Fahrenheit and
  Kelvin");
  System.out.println("2. Fahrenheit to Celsius and
  Kelvin");
  System.out.println("3. Kelvin to Celsius and
  Fahrenheit");
  System.out.print("Enter your choice (1/2/3): ");
  int choice = scanner.nextInt();
```

```
switch (choice) {
  case 1:
    System.out.print("Enter temperature in Celsius: ");
    double celsius = scanner.nextDouble();
    System.out.println("Fahrenheit: " +
    celsiusToFahrenheit(celsius));
    System.out.println("Kelvin: " +
    celsiusToKelvin(celsius));
    break;
  case 2:
    System.out.print("Enter temperature in
    Fahrenheit: ");
    double fahrenheit = scanner.nextDouble();
    System.out.println("Celsius: " +
    fahrenheitToCelsius(fahrenheit));
    System.out.println("Kelvin: " +
    fahrenheitToKelvin(fahrenheit));
    break;
```

case 3:

```
System.out.print("Enter temperature in Kelvin: ");
         double kelvin = scanner.nextDouble();
        System.out.println("Celsius: " +
        kelvinToCelsius(kelvin));
        System.out.println("Fahrenheit: " +
         kelvinToFahrenheit(kelvin));
         break;
      default:
        System.out.println("Invalid choice!");
    }
    scanner.close();
  }
}
```