```
class Calculator {
  public double calculate(double x, double y) {
    return 0;
  }
}
class Addition extends Calculator {
  public double calculate(double x, double y) {
    return x + y;
  }
}
class Subtraction extends Calculator {
  public double calculate(double x, double y) {
    return x - y;
  }
}
class Multiplication extends Calculator {
  public double calculate(double x, double y) {
    return x * y;
  }
}
class Division extends Calculator {
  public double calculate(double x, double y) {
    if (y == 0) {
```

```
System.out.println("Cannot divide by zero.");
       return 0;
    }
    return x / y;
  }
}
public class CalculatorApp {
  public static void main(String[] args) {
    double operand1 = 10;
    double operand2 = 2;
    Calculator addition = new Addition();
    Calculator subtraction = new Subtraction();
    Calculator multiplication = new Multiplication();
    Calculator division = new Division();
    System.out.println("Addition: " + addition.calculate(operand1, operand2));
    System.out.println("Subtraction: " + subtraction.calculate(operand1, operand2));
    System.out.println("Multiplication: " + multiplication.calculate(operand1, operand2));
    System.out.println("Division: " + division.calculate(operand1, operand2));
  }
}
```

Output

Addition: 12.0 Subtraction: 8.0 Multiplication: 20.0 Division: 5.0