

## Problem 1

```
import java.util.Scanner;

public class Main
{
    public static void main(String args[])
    {
        Scanner scan = new Scanner(System.in);

        System.out.print("Please enter the first test score: ");
        int num1 = scan.nextInt();
        System.out.print("Please enter the second test score: ");
        int num2 = scan.nextInt();
        System.out.print("Please enter the third test score: ");
        int num3 = scan.nextInt();
        System.out.print("Please enter the fourth test score: ");
        int num4 = scan.nextInt();
        System.out.print("Please enter the passing score: ");
        double threshold = scan.nextDouble();

        System.out.println("Your test scores: " + num1 + ", " + num2 + ", " + num3 + ", " + num4);
        int testSum = num1 + num2 + num3 + num4;
        double average = (double) testSum / 4;

        if (average > threshold) {
            System.out.println("The average is " + average + ", which is passing.");
        } else {
            System.out.println("The average is " + average + ", which is NOT passing.");
        }
    }
}
```

## Problem 2

```
import java.util.Scanner;

public class Main {
    public static void main(String args[]) {
        Scanner scan = new Scanner(System.in);

        System.out.print("Enter a stock ticker symbol: ");
        String stock = scan.nextLine();

        System.out.print("How many shares do you own? ");
        int shares = scan.nextInt();

        System.out.print("Enter the change in stock price as a positive or negative decimal: ");
        double change = scan.nextDouble();

        double valueChange = shares * change;

        if (valueChange < 0) {
            int rounded = (int)(valueChange - 0.5);
            System.out.println("Change in stock value: $" + rounded + " dollars");
        } else {
            int rounded = (int)(valueChange + 0.5);
            System.out.println("Change in stock value: $" + rounded + " dollars");
        }
    }
}
```

### Problem 3

```
import java.util.Scanner;

public class Main {
    public static void main(String args[]) {
        Scanner scan = new Scanner(System.in);

        System.out.print("Please enter an amount in dollars and cents: ");
        double amount = scan.nextDouble();
        amount *= 100; // convert to whole number of cents, e.g. 1.37 --> 137.0
        int amountInt = (int) amount; // cast to an int, e.g. 137.0 --> 137

        int quarters = amountInt / 25; // int division gives quotient
        int leftover = amountInt % 25; // mod gives remainder
        int dimes = leftover / 10;
        leftover = leftover % 10;
        int nickels = leftover / 5;
        leftover = leftover % 5;
        int pennies = leftover;

        int totalCoins = quarters + dimes + nickels + pennies;
        System.out.println("The minimum number of coins is: " + totalCoins);
        System.out.println(quarters + " quarters");
        System.out.println(dimes + " dimes");
        System.out.println(nickels + " nickels");
        System.out.println(pennies + " pennies");
    }
}
```