

Program 1:

```
// Find the sum of two numbers
// Written by Anjali Godara 2023-10-03

import java.util.Scanner; // Import the Scanner class

public class Calculates_Sum_Program {
    public static void main(String[] args) {

        // Scanners
        Scanner a_obj = new Scanner(System.in); // Number Scanner object
        System.out.println("First Number: ");
        int a = a_obj.nextInt(); // Reads number

        Scanner b_obj = new Scanner(System.in); // Number Scanner object
        System.out.println("First Number: ");
        int b = b_obj.nextInt(); // Reads number

        // Calculates answer
        int c = a + b;

        // Output string
        System.out.print(a + " + " + b + " = " + c);
    }
}
```

Program 2:

```
// Find who is older program
// Written by Anjali Godara 2023-10-03

import java.util.Scanner; // Import the Scanner class

public class Finds_Whose_Older {
    public static void main(String[] args) {

        // Player 1
        // Inputs and stores first person's name
        Scanner n_obj = new Scanner(System.in); // Name Scanner object
        System.out.println("Hello and Welcome! To start we will need your name
and age.\nEnter Name:");
        String Name1 = n_obj.nextLine(); // Read user's name

        // Inputs and stores first person's age
        Scanner a_obj = new Scanner(System.in); // Age Scanner Object
        System.out.println("Enter Age:");
        byte Age1 = a_obj.nextByte(); // Reads Age Byte
    }
}
```

```

        System.out.println("Person One" + "\nName: " + Name1 + "\nAge: " + Age1
+ "\n"); // Outputs greeting

        // Player 2
        // Inputs and stores second person's name
        Scanner n_obj2 = new Scanner(System.in); // Name Scanner object
        System.out.println("\nThank you. Now please give the name and age of
Person Two.\nEnter Name:");
        String Name2 = n_obj2.nextLine(); // Read user's name

        // Inputs and stores second person's age
        Scanner a_obj2 = new Scanner(System.in); // Age Scanner Object
        System.out.println("Enter Age:");
        byte Age2 = a_obj2.nextByte(); // Reads Age Byte
        System.out.println("Person Two" + "\nName: " + Name2 + "\nAge: " + Age2
+ "\n"); // Outputs greeting

        // Calculates age and outputs whose older
        // If person one is older than person two
        if (Age1 > Age2) {
            int c = Age1 - Age2;
            System.out.println(Name1 + " is older than " + Name2 + " by " + c +
" years."); // Outputs that user is older

            // If person two is older than person one
        } else if (Age1 < Age2) {
            int c = Age2 - Age1;
            System.out.println(Name2 + " is older than " + Name1 + " by " + c +
" years."); // Outputs that user is younger

            // If both people are the same age
        } else {
            System.out.println(Name1 + " and " + Name2 + " are the same age!");
// Outputs that both people are the same age
        }
    }
}

```

Program 3:

```

// Currency Conversion Program
// Written by Anjali Godara 2023-10-03

import java.util.Scanner; // Import the Scanner class

public class Conversion_Program {

```

```

// Conversion methods
// Converts USD to CAD
static void Ex_CAD(float moneyf) {
    float total = moneyf * 1.37f; // Conversion
    System.out.println("$" + total + " CAD");
}

// Converts CAD to USD
static void Ex_USD(float moneyf) {
    float total = moneyf * 0.73f; // Conversion
    System.out.println("$" + total + " USD");
}

public static void main(String[] args) {

    // Scanners
    Scanner amount_obj = new Scanner(System.in); // Currency Scanner Object
    System.out.println("Welcome! Please input how much you would like to
exchange:");
    float Amount = amount_obj.nextFloat(); // Reads currency

    Scanner currency_obj = new Scanner(System.in); // Currency Scanner
Object
    System.out.println("Which currency would you like to convert to? (CAD or
USD):");
    String Currency = currency_obj.nextLine(); // Reads currency

    // Selects method based on user input
    if (Currency.equals("CAD")) {
        Ex_CAD(Amount);
    }
    else if (Currency.equals("USD")) {
        Ex_USD(Amount);
    }
}
}

```

Program 4:

```

// Find the sum of two numbers
// Written by Anjali Godara 2023-10-03

import java.util.Scanner; // Import the Scanner class

public class Tax_Calculator {
    public static void main(String[] args) {

```

```

// Scanners
// Price one
Scanner a_obj = new Scanner(System.in); // Price Scanner object
System.out.println("First Price ($) : ");
int a = a_obj.nextInt(); // Reads number

// Price Two
Scanner b_obj = new Scanner(System.in); // Price Scanner object
System.out.println("Second Price ($) : ");
int b = b_obj.nextInt(); // Reads number

// Price Three
Scanner c_obj = new Scanner(System.in); // Price Scanner object
System.out.println("Third Price ($) : ");
int c = c_obj.nextInt(); // Reads number

// Tax
Scanner t_obj = new Scanner(System.in); // Price Scanner object
System.out.println("Tax (%) : ");
float d = t_obj.nextFloat(); // Reads number

// Calculations
// Calculates Subtotal
int sub = a + b + c;

// Calculates Tax
float t = d / 100;
float tax = sub * t;

// Calculates Total
float total = sub + tax;

// Output strings
System.out.print("Price one: $" + a + "\nPrice one: $" + b + "\nPrice
one: $" + c);
System.out.print("\nSubtotal: $" + sub);
System.out.print("\nTax: $" + tax);
System.out.print("\nTotal: $" + total);
}
}

```