

Expert System

```
import java.util.Scanner;

public class Main {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.println("Welcome to the Stock Market Trading System!");

        System.out.println("Please answer the following questions:");

        String Trend = askQuestion("What is the current market trend? (Upwards/Downwards):", sc);

        String Fundamentals = askQuestion("How are the fundamentals of the company? (strong/weak):", sc);

        String Indicators = askQuestion("What do the technical indicators suggest? (positive/negative):", sc);

        boolean shouldBuy = Evaluate(Trend, Fundamentals, Indicators);

        printResult(shouldBuy);

        sc.close();

    }

    public static String askQuestion(String question, Scanner scanner) {

        System.out.print(question + " ");

        return scanner.nextLine();

    }

    public static boolean Evaluate(String Trend, String Fundamentals, String Indicators) {

        return Trend.equalsIgnoreCase("Upwards")

            && Fundamentals.equalsIgnoreCase("strong")

            && Indicators.equalsIgnoreCase("positive");

    }

}
```

```
public static void printResult(boolean shouldBuy) {  
    if (shouldBuy) {  
        System.out.println("Recommendation: Buy the stock!");  
    } else {  
        System.out.println("Recommendation: Do not buy the stock.");  
    }  
}  
}
```

Output:

Welcome to the Stock Market Trading System!

Please answer the following questions:

What is the current market trend? (Upwards/ Downwards): Upwards

How are the fundamentals of the company? (strong/weak): strong

What do the technical indicators suggest? (positive/negative): positive

Recommendation: Buy the stock!

=== Code Execution Successful ===