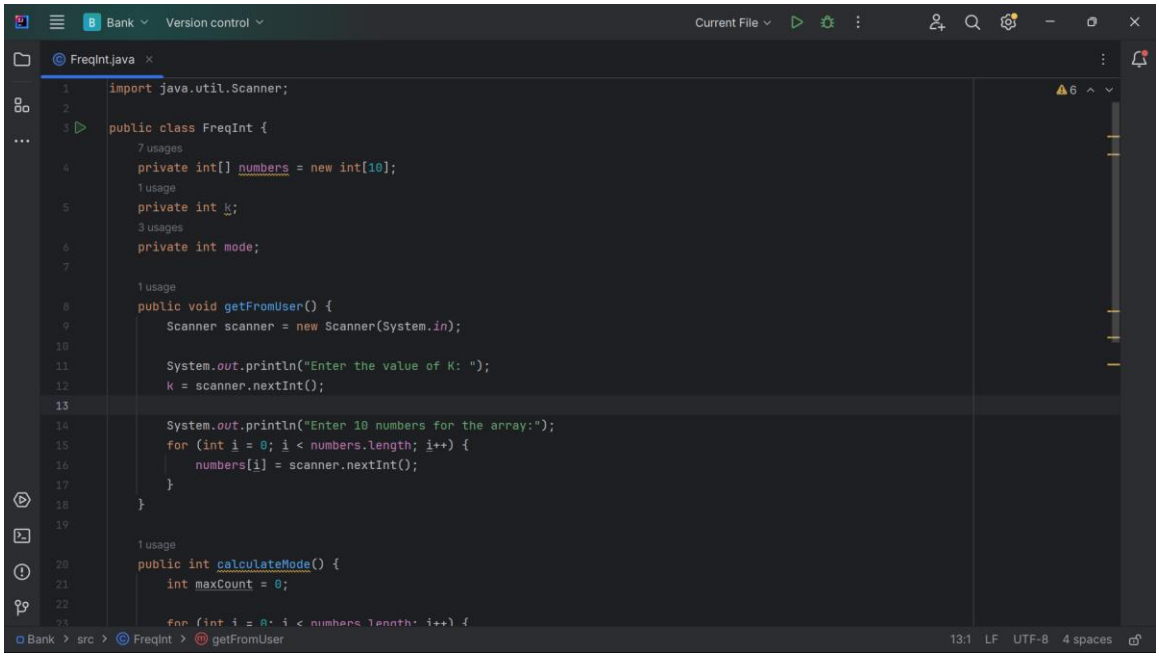
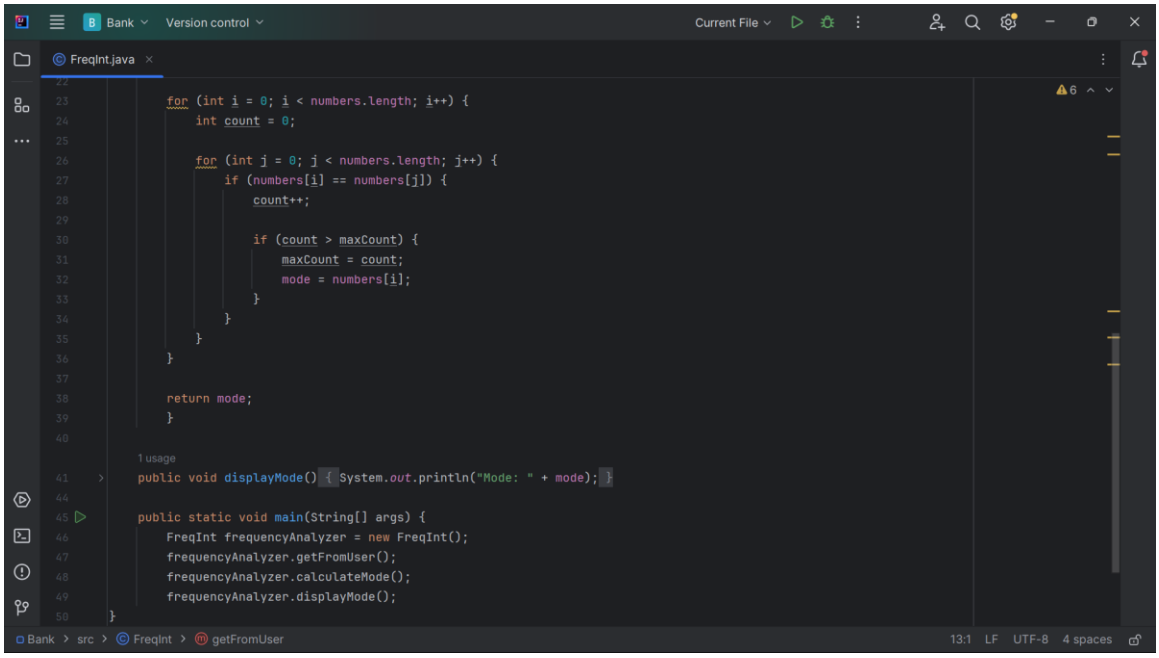
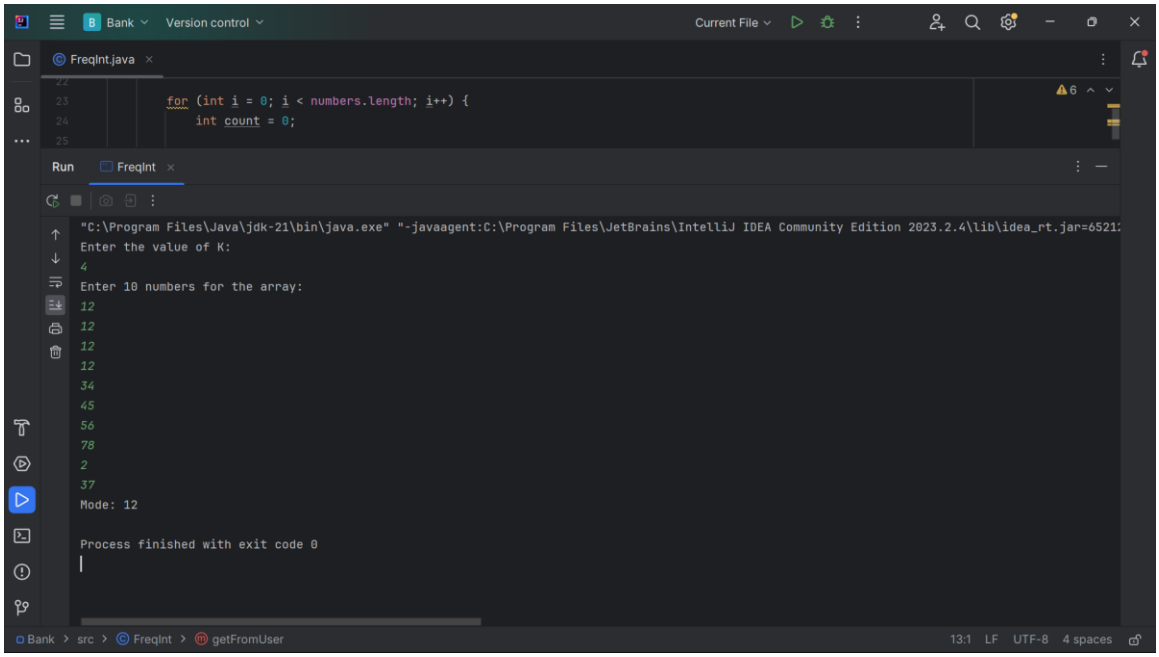
1st PROGRAM:

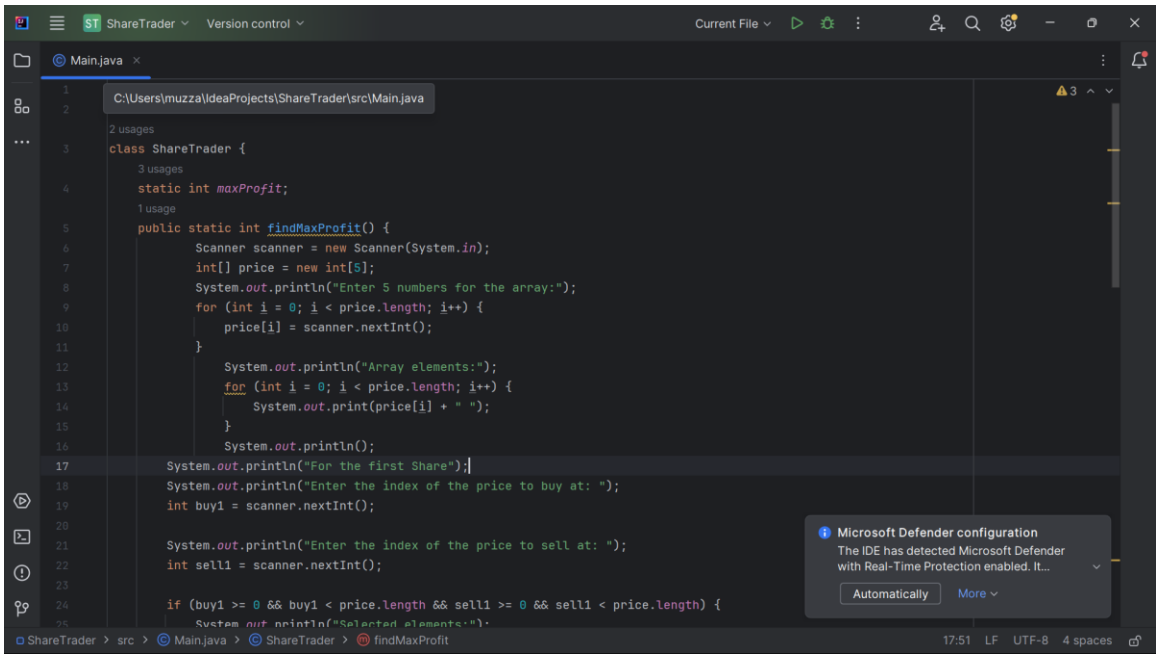

Bank
Version control
Current File
FreqInt.java
import java.util.Scanner;
public class FreqInt {
7 usages
private int[] numbers = new int[10];
1 usage
private int k;
3 usages
private int mode;
1 usage
public void getFromUser() {
Scanner scanner = new Scanner(System.in);
System.out.println("Enter the value of K: ");
k = scanner.nextInt();
System.out.println("Enter 10 numbers for the array:");
for (int i = 0; i < numbers.length; i++) {
numbers[i] = scanner.nextInt();
}
}
1 usage
public int calculateMode() {
int maxCount = 0;
Bank › src › FreqInt › getFromUser
13:1 LF UTF-8 4 spaces

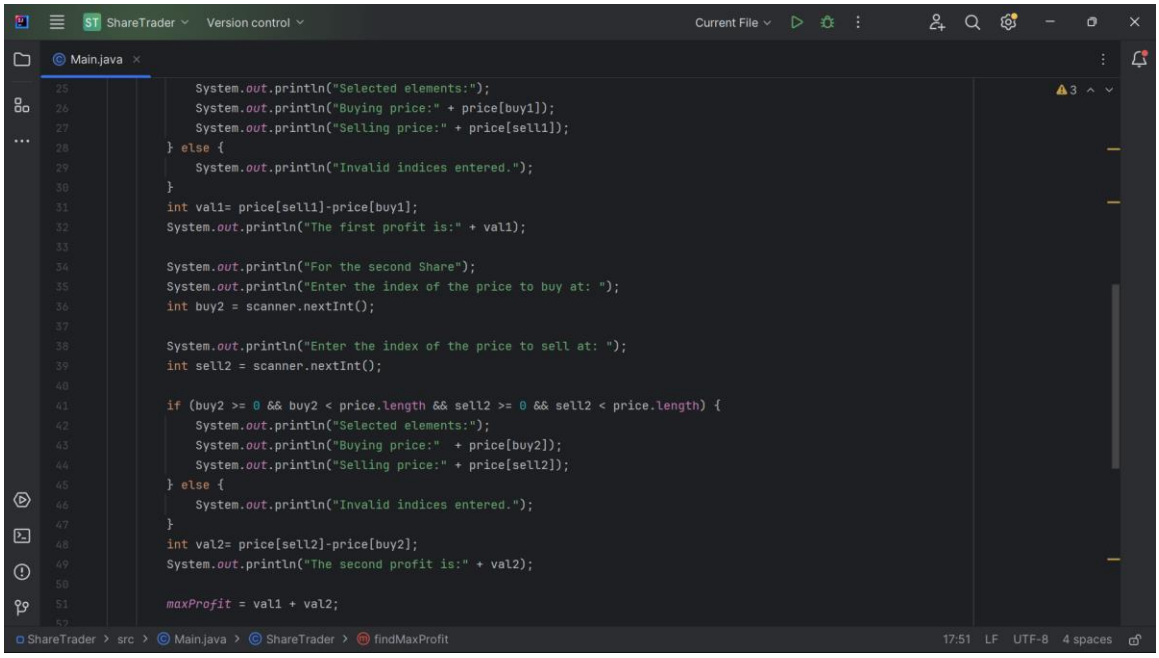

Bank
Version control
Current File
FreqInt.java
for (int i = 0; i < numbers.length; i++) {
int count = 0;
for (int j = 0; j < numbers.length; j++) {
if (numbers[i] == numbers[j]) {
count++;
if (count > maxCount) {
maxCount = count;
mode = numbers[i];
}
}
}
}
return mode;
}
1 usage
public void displayMode() { System.out.println("Mode: " + mode); }
public static void main(String[] args) {
FreqInt frequencyAnalyzer = new FreqInt();
frequencyAnalyzer.getFromUser();
frequencyAnalyzer.calculateMode();
frequencyAnalyzer.displayMode();
}
Bank › src › FreqInt › getFromUser
13:1 LF UTF-8 4 spaces

OUTPUT:


Bank
Version control
Current File
FreqInt.java
for (int i = 0; i < numbers.length; i++) {
int count = 0;
Run
FreqInt
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.2.4\lib\idea_rt.jar=6521
Enter the value of K:
4
Enter 10 numbers for the array:
12
12
12
12
34
45
56
78
2
37
Mode: 12
Process finished with exit code 0
Bank > src > FreqInt > getFromUser
13:1 LF UTF-8 4 spaces

2ND PROGRAM:


ShareTrader
Version control
Current File
Main.java
C:\Users\muzza\IdeaProjects\ShareTrader\src\Main.java
2 usages
class ShareTrader {
3 usages
static int maxProfit;
1 usage
public static int findMaxProfit() {
Scanner scanner = new Scanner(System.in);
int[] price = new int[5];
System.out.println("Enter 5 numbers for the array:");
for (int i = 0; i < price.length; i++) {
price[i] = scanner.nextInt();
}
System.out.println("Array elements:");
for (int i = 0; i < price.length; i++) {
System.out.print(price[i] + " ");
}
System.out.println();
System.out.println("For the first Share");
System.out.println("Enter the index of the price to buy at: ");
int buy1 = scanner.nextInt();
System.out.println("Enter the index of the price to sell at: ");
int sell1 = scanner.nextInt();
if (buy1 >= 0 && buy1 < price.length && sell1 >= 0 && sell1 < price.length) {
Microsoft Defender configuration
The IDE has detected Microsoft Defender with Real-Time Protection enabled. It...
Automatically
More
ShareTrader › src › Main.java › ShareTrader › findMaxProfit
17:51 LF UTF-8 4 spaces


ShareTrader
Version control
Current File
Main.java
System.out.println("Selected elements:");
System.out.println("Buying price:" + price[buy1]);
System.out.println("Selling price:" + price[sell1]);
} else {
System.out.println("Invalid indices entered.");
}
int val1= price[sell1]-price[buy1];
System.out.println("The first profit is:" + val1);
System.out.println("For the second Share");
System.out.println("Enter the index of the price to buy at: ");
int buy2 = scanner.nextInt();
System.out.println("Enter the index of the price to sell at: ");
int sell2 = scanner.nextInt();
if (buy2 >= 0 && buy2 < price.length && sell2 >= 0 && sell2 < price.length) {
System.out.println("Selected elements:");
System.out.println("Buying price:" + price[buy2]);
System.out.println("Selling price:" + price[sell2]);
} else {
System.out.println("Invalid indices entered.");
}
int val2= price[sell2]-price[buy2];
System.out.println("The second profit is:" + val2);
maxProfit = val1 + val2;
ShareTrader › src › Main.java › ShareTrader › findMaxProfit
17:51 LF UTF-8 4 spaces

```
            int val2= price[sell2]-price[buy2];
            System.out.println("The second profit is:" + val2);

            maxProfit = val1 + val2;

            return maxProfit;

        }

        1 usage
        public void display() {
            System.out.println("The maximum profit is:" + maxProfit);
        }
    }

    public class Main {
        public static void main(String[] args) {
            ShareTrader sharetrader = new ShareTrader();
            sharetrader.findMaxProfit();
            sharetrader.display();
        }
    }
```

OUTPUT:

```
7
8
23
Array elements:
5 6 7 8 23
For the first Share
Enter the index of the price to buy at:
0
Enter the index of the price to sell at:
1
Selected elements:
Buying price:5
Selling price:6
The first profit is:1
For the second Share
Enter the index of the price to buy at:
3
Enter the index of the price to sell at:
4
Selected elements:
Buying price:8
Selling price:23
The second profit is:15
The maximum profit is:16
```