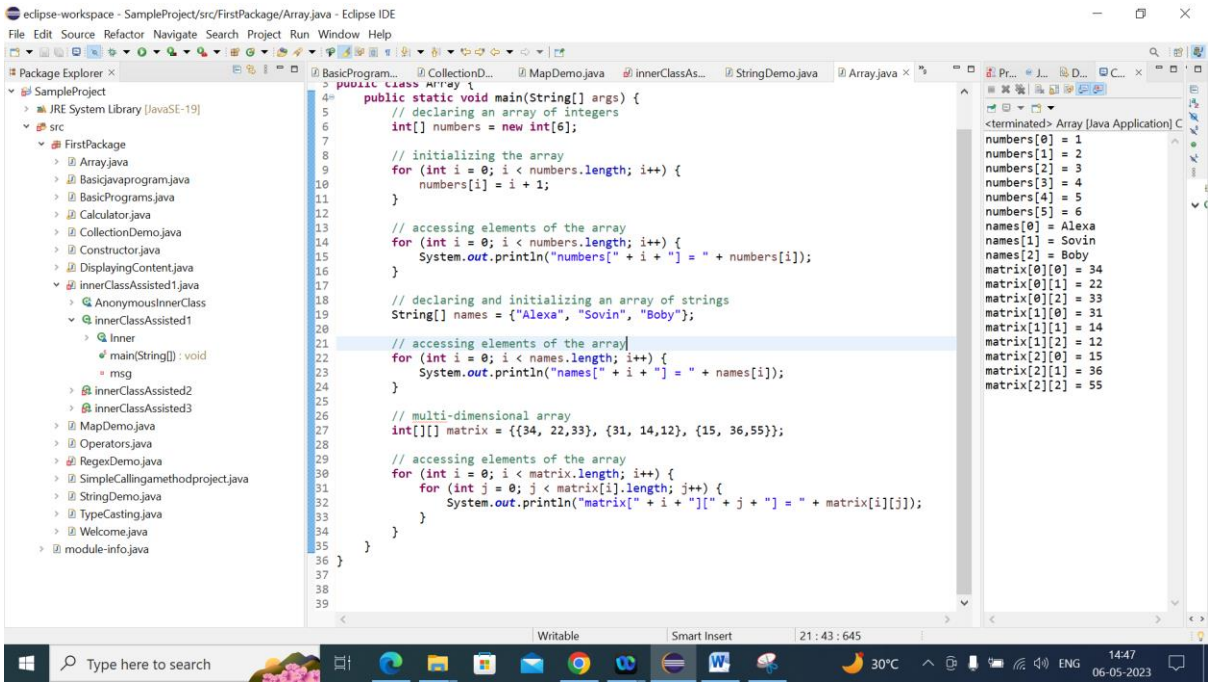
9. Writing a program in Java to verify implementation of arrays.

Source Code:

```
package FirstPackage;

public class Array {
    public static void main(String[] args) {
        // declaring an array of integers
        int[] numbers = new int[6];

        // initializing the array
        for (int i = 0; i < numbers.length; i++) {
            numbers[i] = i + 1;
        }

        // accessing elements of the array
        for (int i = 0; i < numbers.length; i++) {
            System.out.println("numbers[" + i + "] = " + numbers[i]);
        }

        // declaring and initializing an array of strings
        String[] names = {"Alexa", "Sovin", "Boby"};

        // accessing elements of the array
        for (int i = 0; i < names.length; i++) {
            System.out.println("names[" + i + "] = " + names[i]);
        }

        // multi-dimensional array
        int[][] matrix = {{34, 22,33}, {31, 14,12}, {15, 36,55}};

        // accessing elements of the array
        for (int i = 0; i < matrix.length; i++) {
            for (int j = 0; j < matrix[i].length; j++) {
                System.out.println("matrix[" + i + "][" + j + "] = " +
matrix[i][j]);
            }
        }
    }
}
```

Output:


eclipse-workspace - SampleProject/src/FirstPackage/Array.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
SampleProject
JRE System Library [JavaSE-19]
src
FirstPackage
Array.java
Basicjavaprogram.java
BasicPrograms.java
Calculator.java
CollectionDemo.java
Constructor.java
DisplayingContent.java
innerClassAssisted1.java
AnonymousInnerClass
innerClassAssisted1
Inner
main(String[]) : void
msg
innerClassAssisted2
innerClassAssisted3
MapDemo.java
Operators.java
RegexDemo.java
SimpleCallingamethodproject.java
StringDemo.java
TypeCasting.java
Welcome.java
module-info.java
BasicProgram...
CollectionD...
MapDemo.java
innerClassAs...
StringDemo.java
Array.java
public class Array {
public static void main(String[] args) {
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String[] names = {"Alexa", "Sovin", "Boby"};
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int[][] matrix = {{34, 22,33}, {31, 14,12}, {15, 36,55}};
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for (int i = 0; i < matrix.length; i++) {
for (int j = 0; j < matrix[i].length; j++) {
System.out.println("matrix[" + i + "][" + j + "] = " + matrix[i][j]);
}
}
}
}
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21 : 43 : 645
<terminated> Array [Java Application] C
numbers[0] = 1
numbers[1] = 2
numbers[2] = 3
numbers[3] = 4
numbers[4] = 5
numbers[5] = 6
names[0] = Alexa
names[1] = Sovin
names[2] = Boby
matrix[0][0] = 34
matrix[0][1] = 22
matrix[0][2] = 33
matrix[1][0] = 31
matrix[1][1] = 14
matrix[1][2] = 12
matrix[2][0] = 15
matrix[2][1] = 36
matrix[2][2] = 55
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06-05-2023