1. Declare a single-dimensional array of 5 integers inside the main method. Traverse the array to print the default values. Then accept records from the user and print the updated values of the array.

A screenshot of a computer

Description automatically generated

A black screen with a black border

Description automatically generated with medium confidence

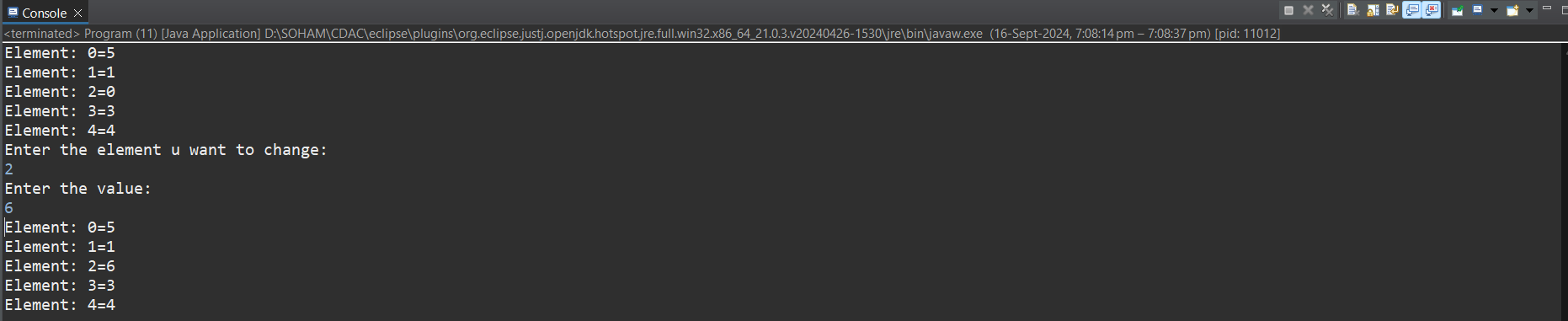
1. Declare a single-dimensional array of 5 integers inside the main method. Define a method named acceptRecord to get input from the terminal into the array and another method named printRecord to print the state of the array to the terminal.

A screenshot of a computer

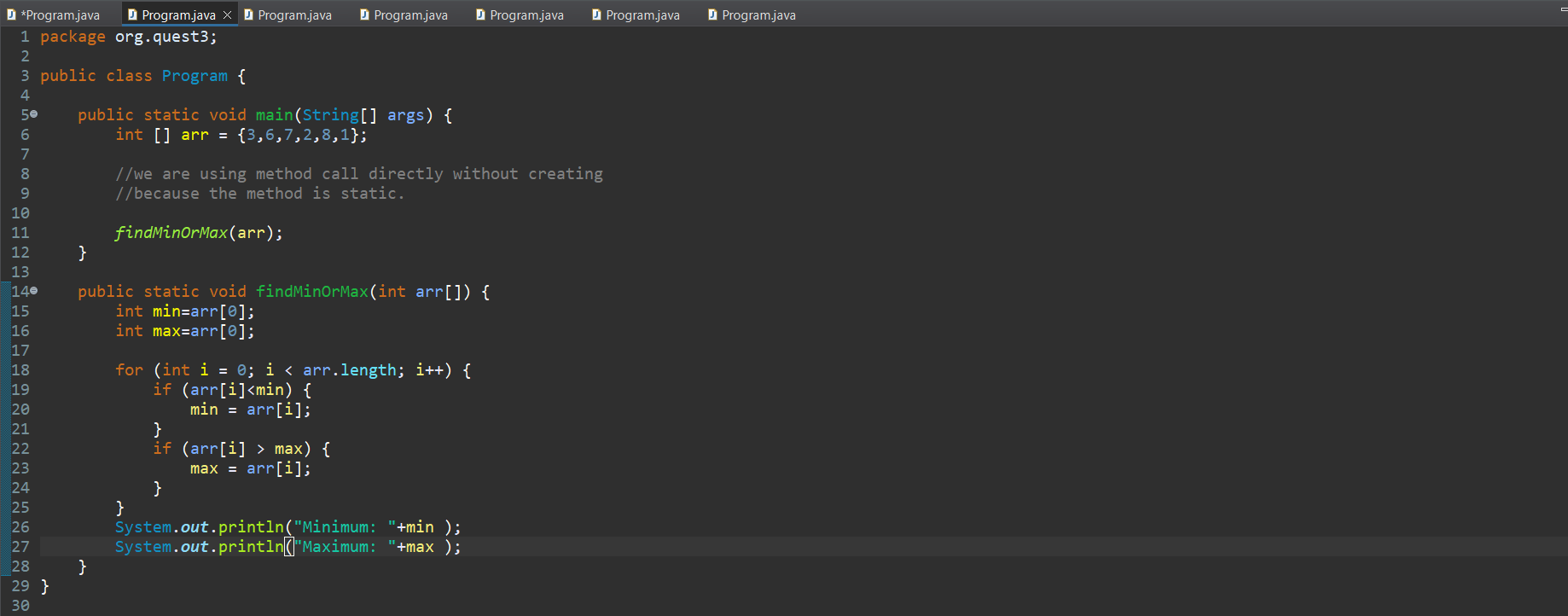
Description automatically generated

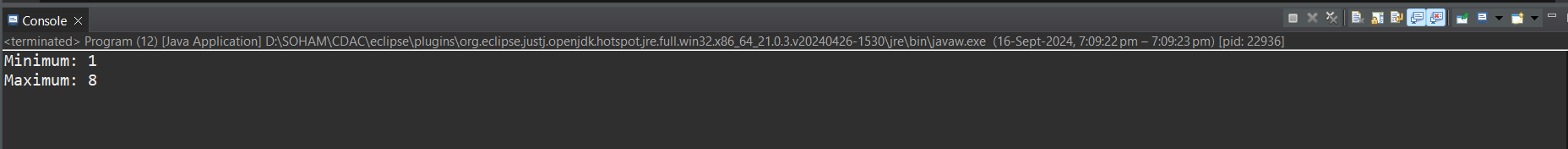
A black rectangle with white text

Description automatically generated



1. Write a program to find the maximum and minimum values in a single-dimensional array of integers.





1. Write a program to remove duplicate elements from a single-dimensional array of integers.

A screenshot of a computer

Description automatically generated



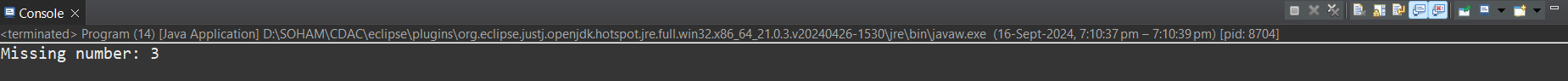
A screen shot of a computer

Description automatically generated

1. Write a program to find the intersection of two single-dimensional arrays.
2. Write a program to find the missing number in an array of integers ranging from 1 to N.

A screenshot of a computer

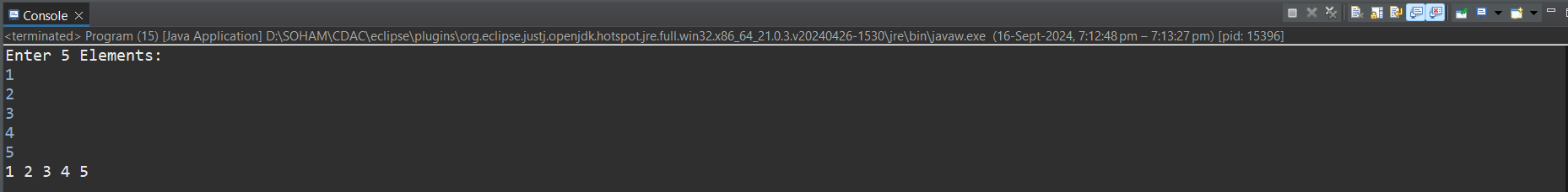
Description automatically generated



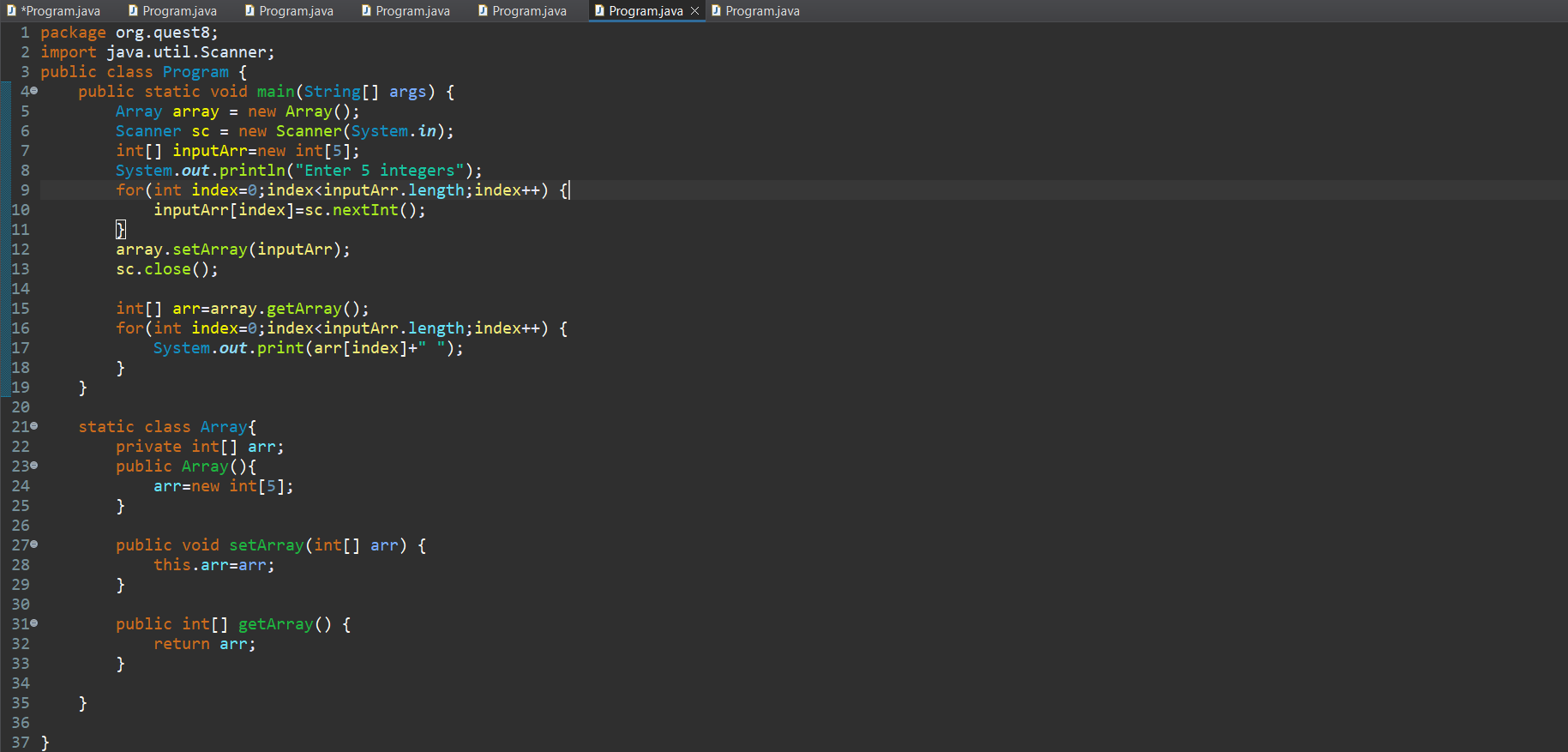
1. Declare a single-dimensional array as a field inside a class and instantiate it inside the class constructor. Define methods named acceptRecord and printRecord within the class and test their functionality.

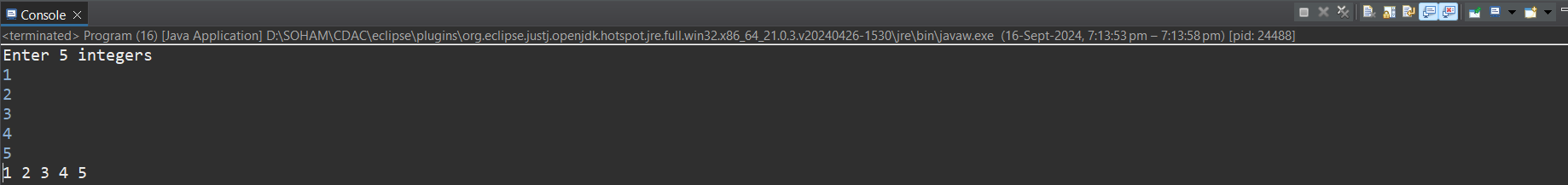
A screenshot of a computer

Description automatically generated



1. Modify the previous assignment to use getter and setter methods instead of acceptRecord and printRecord.





1. You need to implement a system to manage airplane seat assignments. The airplane has seats arranged in rows and columns. Implement functionalities to:

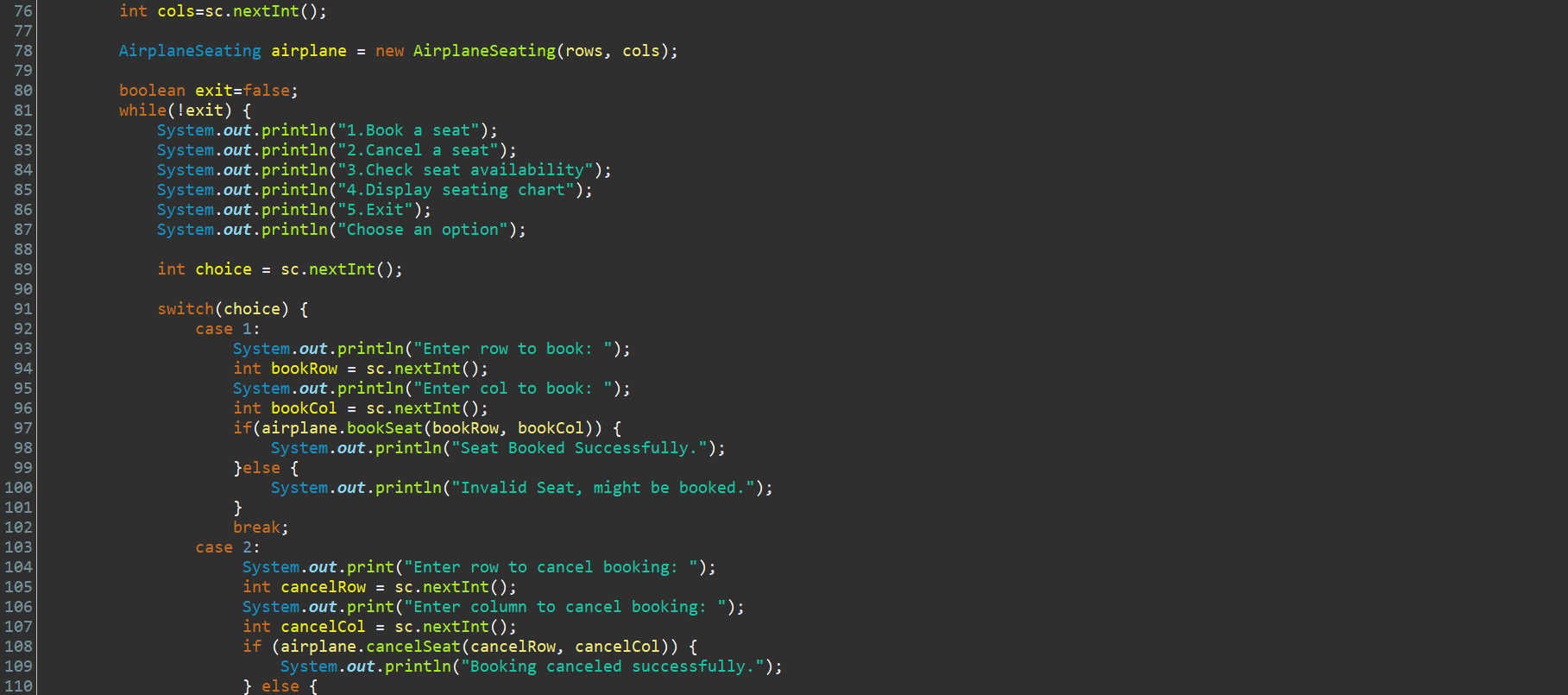
* Initialize the seating arrangement with a given number of rows and columns.
* Book a seat to mark it as occupied.
* Cancel a booking to mark a seat as available.
* Check seat availability to determine if a specific seat is available.
* Display the current seating chart.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated



A computer screen shot of a computer

Description automatically generated



