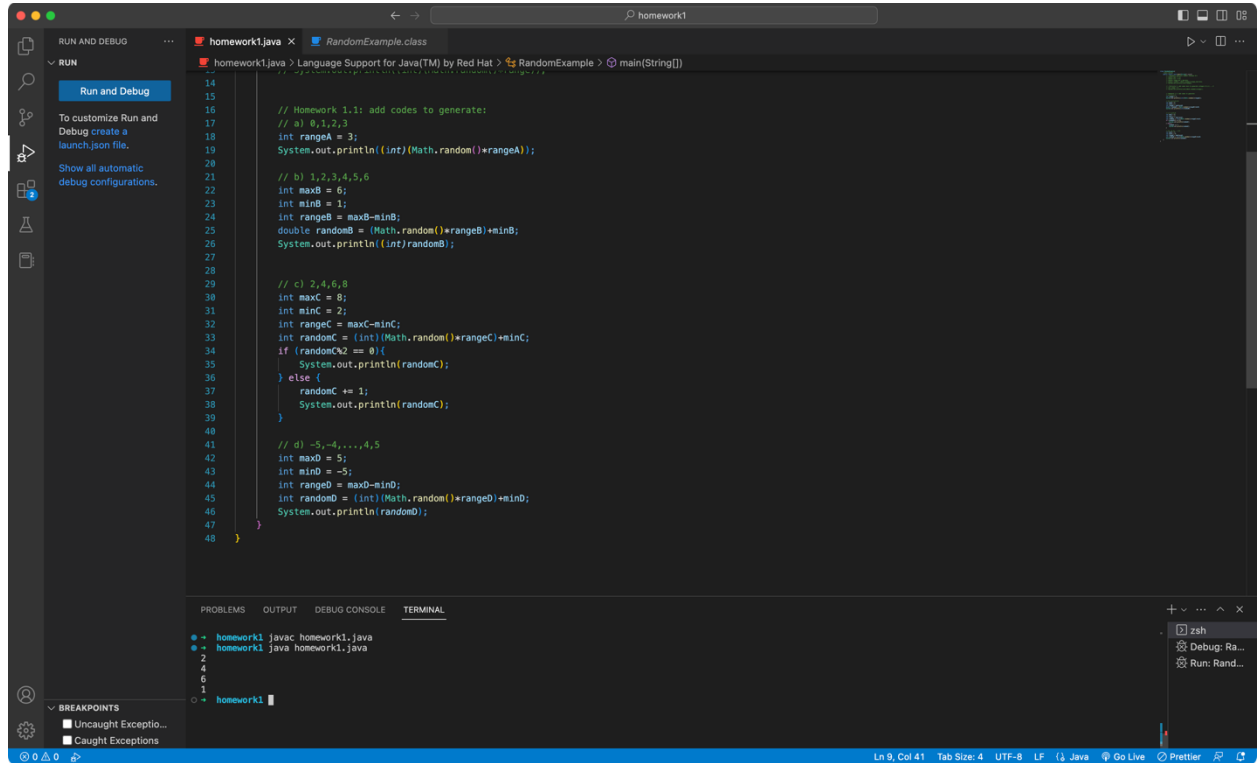


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# Algorithm and Data Structure Lab

## Homework 1

## Homework 1.1



## Homework 1.2

The screenshot shows an IDE with a dark theme. The main editor displays a Java file named `homework2.java` with the following code:

```
1 class multiplicationTable {
2     public static void main(String[] args){
3         for(int i = 1; i <= 9; ++i){
4             for(int j = 1; j <= 9; j++){
5                 System.out.printf(format: "%d * %d = %d \t", i, j, j*i);
6             }
7             System.out.printf(format: "\n");
8         }
9     }
10 }
```

The left sidebar shows the 'RUN AND DEBUG' tab with a 'Run and Debug' button and instructions to create a launch.json file or show automatic debug configurations. The bottom panel is divided into 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL'. The 'TERMINAL' tab is active, showing the output of the program:

```
homework1: java: homework2.java
homework1: java: multiplicationTable
1 * 1 = 1    1 * 2 = 2    1 * 3 = 3    1 * 4 = 4    1 * 5 = 5    1 * 6 = 6    1 * 7 = 7    1 * 8 = 8    1 * 9 = 9
2 * 1 = 2    2 * 2 = 4    2 * 3 = 6    2 * 4 = 8    2 * 5 = 10   2 * 6 = 12   2 * 7 = 14   2 * 8 = 16   2 * 9 = 18
3 * 1 = 3    3 * 2 = 6    3 * 3 = 9    3 * 4 = 12   3 * 5 = 15   3 * 6 = 18   3 * 7 = 21   3 * 8 = 24   3 * 9 = 27
4 * 1 = 4    4 * 2 = 8    4 * 3 = 12   4 * 4 = 16   4 * 5 = 20   4 * 6 = 24   4 * 7 = 28   4 * 8 = 32   4 * 9 = 36
5 * 1 = 5    5 * 2 = 10   5 * 3 = 15   5 * 4 = 20   5 * 5 = 25   5 * 6 = 30   5 * 7 = 35   5 * 8 = 40   5 * 9 = 45
6 * 1 = 6    6 * 2 = 12   6 * 3 = 18   6 * 4 = 24   6 * 5 = 30   6 * 6 = 36   6 * 7 = 42   6 * 8 = 48   6 * 9 = 54
7 * 1 = 7    7 * 2 = 14   7 * 3 = 21   7 * 4 = 28   7 * 5 = 35   7 * 6 = 42   7 * 7 = 49   7 * 8 = 56   7 * 9 = 63
8 * 1 = 8    8 * 2 = 16   8 * 3 = 24   8 * 4 = 32   8 * 5 = 40   8 * 6 = 48   8 * 7 = 56   8 * 8 = 64   8 * 9 = 72
9 * 1 = 9    9 * 2 = 18   9 * 3 = 27   9 * 4 = 36   9 * 5 = 45   9 * 6 = 54   9 * 7 = 63   9 * 8 = 72   9 * 9 = 81
```

The bottom status bar indicates 'Ln 10, Col 2', 'Spaces: 4', 'UTF-8', 'LF', and provides links for 'Java', 'Go Live', 'Prettier', and other tools.