

L2T1.java - Awais javaprograms - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

AWAIS JAVAPROGRAMS

.vscode

settings.json

Lab 2

Jaggedarray.java 1

L2T1.java 1

L2T2.java

L2T3.java

L2T4.java 3

Reversearray.java

Sorting.java

Lab 3

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A.java

Aaa.class

Aaa.java 2

Awais.java

Book.java 6

Fabonacci.java 1

Factorial.java

L1T1.java 1

L2T2.java 1

L2T3.java 1

L2T4.java 1

L2T5.java

L2T6.java

L4T1.java

L4T2.java 3

Main.java 1

outer.java 3

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Stack1.java 3

Student.java 1

Studentdemo.java 2

StudentS.java

Test.java

Test1.java

Try.java 5

Lab 2 > J L2T1.java > L2T1

```
1 import java.util.Scanner;
2
3 //Task 1 .Write a program to Find the number of days in a month using a switch statement
4
5 public class L2T1 {
6     public static void main(String[] args) {
7
8         Scanner scanner = new Scanner(System.in);
9         System.out.print(s:"Enter month (jan-dec): ");
10        String month = scanner.nextLine();
11
12        switch (month) {
13            case "jan":
14            case "mar":
15            case "may":
16            case "jul":
17            case "aug":
18            case "oct":
19            case "dec":
20                System.out.println(x:"31 Days");
21                break;
22            case "apr":
23            case "jun":
24            case "sep":
25            case "nov":
26                System.out.println(x:"30 Days");
27                break;
28            case "feb":
29                System.out.println(x:"28/29 Days");
30                break;
31            default:
32                System.out.println(x:"Invalid month");
33        }
34    }
35
36 }
37
```

Codeium: Refactor | Explain

Run | Debug | Codeium: Refactor | Explain | Generate Javadoc | X

PROBLEMS 36 OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

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JavaSE-21

JavaSE-21

OUTLINE

TIMELINE

JAVA PROJECTS

29 7 0 Java: Ready

Ln 3, Col 11 Spaces: 4 UTF-8 LF {} Java Go Live Codeium: {...} Spell

L2T2.java - Awais javaprograms - Visual Studio Code

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 Stack1.java
 Student.java
 Studentdemo.java
 StudentS.java
 Test.java
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 Try.java

Lab 2 > J L2T2.java
1 import java.util.Scanner;
2
3 //Task 2. Write a program to check whether the number is even or odd using switch statement.
4
5
6 public class L2T2 {
7
8 public static void main(String[] args) {
9
10 int a;
11
12 Scanner sc = new Scanner(System.in);
13 System.out.print(s:"Enter a number: ");
14 a = sc.nextInt();
15
16 switch (a % 2) {
17
18 case 0:
19 System.out.println(x:"Even");
20 break;
21 default:
22 System.out.println(x:"Odd");
23 break;
24 }
25
26 sc.close();
27
28 }
29 }

Codeium: Refactor | Explain
Run | Debug | Codeium: Refactor | Explain | Generate Javadoc | X

PROBLEMS 36 OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

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JavaSE-21
JavaSE-21

OUTLINE
TIMELINE
JAVA PROJECTS

29 7 0 Java: Ready

Ln 3, Col 25 Spaces: 4 UTF-8 LF {} Java Go Live Codeium: {...} Spell

L2T3.java - Awais javaprograms - Visual Studio Code

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L4T2.java

Main.java

outer.java

Stack.java

Stack1.java

Student.java

Studentdemo.java

StudentS.java

Test.java

Test1.java

Try.java

Lab 2 > J L2T3.java

1

2 //Task 3. Write a Java program to copy an array into another array by iterating the first array.

3

Codeium: Refactor | Explain

4 public class L2T3 {

5

Run | Debug | Codeium: Refactor | Explain | Generate Javadoc | X

6 public static void main(String[] args) {

7

8 int a[]={2,4,6,8,10};

9 int b[]=new int[a.length];

10

11 for(int i=0;i<a.length;i++)

12 {

13

14 b[i]=a[i];

15

16 }

17

18 for(int i=0;i<b.length;i++)

19 {

20 System.out.println(b[i]);

21 }

22

23 }

24 }

PROBLEMS 36 OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

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OUTLINE

TIMELINE

JAVA PROJECTS

Ln 2, Col 96 Spaces: 4 UTF-8 LF () Java Go Live Codeium: (...) Spell

L2T4.java - Awais javaprograms - Visual Studio Code

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EXPLORER

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Lab 2 > J L2T4.java > L2T4

1 //Task 4. Write code that creates an array named odds and stores all odd numbers between 1 and 30 into it using a for loop.

2

3 public class L2T4 {

4 int[] odds = new int[15];

5 int count = 0;

6

7 for (int i = 1; i <= 30; i++) {

8 if (i % 2 != 0) {

9 odds[count] = i;

10 count++;

11 }

12 }

13

14 public static void main(String[] args) {

15 L2T4 obj = new L2T4();

16 for (int i = 0; i < obj.count; i++)

17 {

18 System.out.println(obj.odds[i]);

19 }

20 }

21

22 }

23

Run | Debug | Codeium: Refactor | Explain | Generate Javadoc | X

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PROBLEMS 36 OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

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OUTLINE

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JAVA PROJECTS

Ln 1, Col 99 Spaces: 4 UTF-8 LF {} Java Go Live Codeium: {} Spell

Reversearray.java - Awais javaprograms - Visual Studio Code

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J Aaa.java

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J L4T2.java

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J outer.java

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J Stack1.java

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J StudentS.java

J Test.java

J Test1.java

J Try.java

Lab 2 > J Reversearray.java

Reversearray

1 //Task 5. Write a Java program to reverse the elements of an array.

2

3 public class Reversearray {

4

5 public static void reverseArray(int[] arr) {

6 int start = 0;

7 int end = arr.length - 1;

8 while (start < end) {

9 int temp = arr[start];

10 arr[start] = arr[end];

11 arr[end] = temp;

12 start++;

13 end--;

14 }

15 }

16

17 public static void main(String[] args) {

18 int[] arr = { 1, 2, 3, 4, 5 };

19 reverseArray(arr);

20 for (int i : arr) {

21 System.out.print(i + " ");

22 }

23 System.out.println();

24 }

25

26

27

28

29 }

30

31

32

PROBLEMS 36

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JavaSE-21

JavaSE-21

29 7 0

Java: Ready

Ln 1, Col 68 Spaces: 4 UTF-8 LF {} Java Go Live Codium: {} 1 Spell

Sorting.java - Awais javaprograms - Visual Studio Code

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Lab 2 > J Sorting.java > Sorting > bubbleSort(int[])

```
1 //Task 7. Try to implement any sorting algorithm in java like bubble and selection sort.
2
3 public class Sorting {
4
5     public static void bubbleSort(int[] arr) {
6         int n = arr.length;
7         for (int i = 0; i < n-1; i++) {
8             for (int j = 0; j < n-1-i; j++) {
9                 if (arr[j] > arr[j+1]) {
10                     int temp = arr[j];
11                     arr[j] = arr[j+1];
12                     arr[j+1] = temp;
13                 }
14             }
15         }
16     }
17
18     public static void selectionSort(int[] arr) {
19         int n = arr.length;
20         for (int i = 0; i < n-1; i++) {
21             int min = i;
22             for (int j = i+1; j < n; j++) {
23                 if (arr[j] < arr[min]) {
24                     min = j;
25                 }
26             }
27             int temp = arr[i];
28             arr[i] = arr[min];
29             arr[min] = temp;
30         }
31     }
32
33     public static void main(String[] args) {
34         int[] arr = { 12, 78, 32, 56, 1, 1000 };
35
36         System.out.println(x:"Array Before Bubble Sort: ");
37         for(int i : arr) {
38             System.out.print(i+" ");
39         }
40         System.out.println();
41
42         bubbleSort(arr);
```

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Java: Ready

Ln 6, Col 21 Spaces: 4 UTF-8 LF {} Java Go Live Codeium: {} Spell

Jaggedarray.java - Awais javaprograms - Visual Studio Code

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Try.java

Lab 2 > Jaggedarray.java

1 import java.util.Scanner;

2 //Task 6. Write a Java program that takes a jagged array as input and finds the maximum element of array and Display it.

3 public class Jaggedarray {

4

5 public static void main(String[] args) {

6 Scanner sc = new Scanner(System.in);

7 System.out.print(s:"Enter the number of rows of jagged array: ");

8 int n = sc.nextInt();

9

10 int[][] jaggedArray = new int[n][];

11

12 for (int i = 0; i < n; i++) {

13 System.out.print("Enter the number of columns of row " + (i + 1) + ": ");

14 int m = sc.nextInt();

15 jaggedArray[i] = new int[m];

16 System.out.println("Enter elements of row " + (i + 1) + ": ");

17 for (int j = 0; j < m; j++)

18 jaggedArray[i][j] = sc.nextInt();

19 }

20

21 int max = jaggedArray[0][0];

22 for (int i = 0; i < n; i++)

23 for (int j = 0; j < jaggedArray[i].length; j++)

24 if (jaggedArray[i][j] > max)

25 max = jaggedArray[i][j];

26

27 System.out.println("The maximum element in the jagged array is: " + max);

28 }

29

30

31

32 }

33 }

PROBLEMS 36

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OUTLINE

TIMELINE

JAVA PROJECTS

Ln 19, Col 10

Spaces: 4

UTF-8

LF

Java

Go Live

Codelium: { }

1 Spell