

Tarefa de Programação



Java

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Semana 3 | Tarefa de Linguagens de Programação II

Exercício 1:

The screenshot displays the Visual Studio Code interface with a Java file named `Exercicio1.java` open. The code is as follows:

```
1 import java.util.Scanner;
2 
3 class Exercicio1 {
4     public static void main(String args[]) {
5 
6         Scanner input = new Scanner(System.in);
7         int a, b;
8         a = input.nextInt();
9         b = input.nextInt();
10        System.out.println("SOMA = " + (a + b));
11 
12        input.close();
13    }
14 }
```

The terminal at the bottom shows the execution of the program:

```
E:\linguagemDeProgramação\Lp>javac Exercicio1.java && java Exercicio1
100 100
SOMA = 200

E:\linguagemDeProgramação\Lp>
```

The status bar at the bottom indicates the current position is Line 3, Column 17, with 4 spaces, UTF-8 encoding, and CRLF line endings. The language is set to Java, and the session duration is 2h 16m.

Exercício 2:

The screenshot displays the Visual Studio Code interface with a Java file named `Exercicio2.java` open. The Explorer sidebar on the left shows the project structure, including `Exercicio1.class`, `Exercicio1.java`, `Exercicio2.class`, `Exercicio2.java`, and `README.md`. The main editor area shows the following Java code:

```
1 import java.util.Scanner;
2
3 public class Exercicio2 {
4     public static void main(String args[]) {
5         Scanner input = new Scanner(System.in);
6         Double a, b, c;
7
8         a = input.nextDouble();
9         b = input.nextDouble();
10        c = input.nextDouble();
11        int MAXTAM = 5;
12        Double[] res = new Double [MAXTAM];
13
14        res[0] = (a * c) / 2;
15        res[1] = 3.14159 * (c * c);
16        res[2] = ((a + b) * c) / 2;
17        res[3] = b * b;
18        res[4] = a * b;
19
20        for(int i = 0; i < 5; i++)
21            System.out.println(res[i]);
22
23        input.close();
24    }
25 }
```

Below the code editor, the TERMINAL panel shows the command to compile and run the program, followed by its output:

```
E:\linguagemDeProgramação\Lp>javac Exercicio2.java && java Exercicio2
5 5 5
12.5
78.53975
25.0
25.0
25.0
```

The bottom status bar indicates the current position is Line 3, Column 26, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Java language. The system tray at the bottom shows the date and time as 20:04 on 24/03/2021.

Exercício 3:

The screenshot shows the Visual Studio Code interface with a Java file named `Exercicio3.java` open. The code defines a class `Exercicio3` with a `main` method that reads input for name, salary, and sales, then calculates a bonus based on sales and prints the total salary.

```
1 import java.util.Scanner;
2
3 public class Exercicio3 {
4     public static void main(String args[]) {
5         Scanner input = new Scanner(System.in);
6         String Name;
7         String Salario, Vendas;
8
9         Name = input.next();
10        Salario = input.next();
11        Vendas = input.next();
12
13        System.out.println( Name + " receberá " + (Double.parseDouble( Salario ) + Double.parseDouble( Vendas ) * 0.15) );
14        input.close();
15    }
16 }
17
```

The terminal output shows the execution of the program:

```
E:\linguagemDeProgramação\Lp>javac Exercicio3.java && java Exercicio3
Jonas 1500.00 15000.00
Jonas receberá 3750.0
E:\linguagemDeProgramação\Lp>
```

The status bar at the bottom indicates the current line and column: `Ln 13, Col 114`. The system tray shows the date and time: `POR PTB 24/03/2021 20:41`.

Exercício 4:

The screenshot shows the Visual Studio Code interface with the following components:

- EXPLORADOR (Explorer):** Lists files in the 'LP' folder: Exercício1.class, Exercício1.java, Exercício2.class, Exercício2.java, Exercício3.class, Exercício3.java, Exercício4.class, Exercício4.java, and README.md.
- EXERCÍCIO 4 CODE EDITOR:** Displays the Java code for Exercício4.java. The code imports Scanner and Arrays, defines a public class Exercício4, and includes a main method that reads three integers, sorts them, and prints them.
- TERMINAL:** Shows the command to compile and run the program, followed by the output of the program.

```
1 import java.util.Scanner;
2 import java.util.Arrays;
3
4 public class Exercício4 {
5     public static void main(String args[]) {
6         Scanner input = new Scanner(System.in);
7         int[] arr = new int[3];
8
9         for (int i = 0; i < 3; i++)
10             arr[i] = input.nextInt();
11
12         for (int i = 0; i < 3; i++)
13             System.out.printf("%d ", arr[i]);
14
15         Arrays.sort(arr);
16         System.out.printf("\n");
17
18         for (int i = 0; i < 3; i++)
19             System.out.printf("%d ", arr[i]);
20         input.close();
21     }
22 }
```

Terminal Output:

```
E:\linguagemDeProgramação\Lp>javac Exercício4.java && java Exercício4
9 8 7
9 8 7
7 8 9
E:\linguagemDeProgramação\Lp>
```


Exercício 5:

Visual Studio Code interface showing the code for Exercício 5.

EXPLORADOR

- LP
 - Exercicio1.class
 - Exercicio1.java
 - Exercicio2.class
 - Exercicio2.java
 - Exercicio3.class
 - Exercicio3.java
 - Exercicio4.class
 - Exercicio4.java
 - Exercicio5.class
 - Exercicio5.java
 - README.md

EXERCÍCIO 5

```
1 import java.util.Scanner;
2
3 public class Exercício5 {
4     public static void main(String args[]) {
5         Scanner input = new Scanner(System.in);
6         int x, y, cont = 0;
7
8         x = input.nextInt();
9         y = input.nextInt();
10
11         for (
12             int i = Math.min(x, y);
13             i < Math.max(x, y);
14             i++
15         ) if (i % 2 != 0) cont += i;
16
17         System.out.printf("%d\n", cont);
18
19         input.close();
20     }
21 }
```

TERMINAL

```
E:\linguagemDeProgramação\Lp>javac Exercício5.java && java Exercício5
1 10
25

E:\linguagemDeProgramação\Lp>
```

Ln 17, Col 32 | Espaços: 4 | UTF-8 | CRLF | java | 3h 12m | JavaSE-11 | 20:55 | 24/03/2021