

1. Составить алгоритм: если введенное число больше 7, то вывести “Привет”

```
import java.util.Scanner;
public class Main {

    public static void main (String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.println("Enter number: ");
        int number = scanner.nextInt();

        if (number > 7) {
            System.out.println("Hello");
        } else {
            System.out.println(number);
        }

    }

}
```

eclipse-workspace - BroCode/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Main.java x

```
1 import java.util.Scanner;
2
3
4 public class Main {
5
6     public static void main (String[] args) {
7
8         Scanner scanner = new Scanner(System.in);
9
10
11         System.out.println("Enter number: ");
12         int number = scanner.nextInt();
13
14         if (number > 7) {
15             System.out.println("Hello");
16         } else {
17             System.out.println(number);
18         }
19
20
21     }
22
23 }
24
```

Problems Javadoc Declaration Console x

<terminated> Main (3) [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe

Enter number:  
5

The screenshot shows the Eclipse IDE interface. The title bar reads "eclipse-workspace - BroCode/src/Main.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development tools. The editor window displays the following Java code:

```
1 import java.util.Scanner;
2
3
4 public class Main {
5
6     public static void main (String[] args) {
7
8         Scanner scanner = new Scanner(System.in);
9
10
11         System.out.println("Enter number: ");
12         int number = scanner.nextInt();
13
14         if (number > 7) {
15             System.out.println("Hello");
16         } else {
17             System.out.println(number);
18         }
19
20
21     }
22 }
23
24
```

At the bottom, the Console tab is active, showing the output of the program:

```
<terminated> Main (3) [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe
Enter number:
8
Hello
```

2. Составить алгоритм: если введенное имя совпадает с Вячеслав, то вывести "Привет, Вячеслав", если нет, то вывести "Нет такого имени"

```
import java.util.Scanner;
public class Main {

    public static void main (String[] args) {

        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter your name: ");

        String name = scanner.nextLine();

        if (name.equals("Vyacheslav")) {
            System.out.println("Hello, Vyacheslav");
        } else {
            System.out.println("No such name");
        }

    }

}
```

eclipse-workspace - BroCode/src/Main.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Main.java ×

```
1 import java.util.Scanner;
2
3
4 public class Main {
5
6     public static void main (String[] args) {
7
8         Scanner scanner = new Scanner(System.in);
9         System.out.println("Enter your name: ");
10
11         String name = scanner.nextLine();
12
13         if (name.equals("Vyacheslav")) {
14             System.out.println("Hello, Vyacheslav");
15         } else {
16             System.out.println("No such name");
17         }
18
19
20     }
21 }
22
23
```

Problems Javadoc Declaration Console ×

<terminated> Main (3) [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe

Enter your name:  
Sauron  
No such name

The screenshot shows the Eclipse IDE interface. The title bar reads "eclipse-workspace - BroCode/src/Main.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development. The left sidebar shows the project structure with "BroCode" and "Main.java". The main editor displays the following Java code:

```
1 import java.util.Scanner;
2
3
4 public class Main {
5
6     public static void main (String[] args) {
7
8         Scanner scanner = new Scanner(System.in);
9         System.out.println("Enter your name: ");
10
11         String name = scanner.nextLine();
12
13         if (name.equals("Vyacheslav")) {
14             System.out.println("Hello, Vyacheslav");
15         } else {
16             System.out.println("No such name");
17         }
18
19     }
20 }
21
22
23
```

At the bottom, the Console view shows the execution output:

```
<terminated> Main (3) [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (26 июл
Enter your name:
Vyacheslav
Hello, Vyacheslav
```

3. Составить алгоритм: на входе есть числовой массив, необходимо вывести элементы массива кратные 3

```
public class Main {  
  
    public static void main (String[] args) {  
  
        int myArray[] = {1,2,3,4,5,6,7,8,9};  
  
        for(int i = 1; i < myArray.length + 1; i++) {  
  
            if(i % 3 == 0) {  
  
                System.out.println(i);  
  
            }  
  
        }  
  
    }  
  
}
```

The screenshot shows the Eclipse IDE interface. The title bar reads "eclipse-workspace - BroCode/src/Main.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development. The editor window shows the following Java code:

```
1 import java.util.Scanner;
2
3
4 public class Main {
5
6     public static void main (String[] args) {
7
8         int myArray[] = {1,2,3,4,5,6,7,8,9};
9
10        for(int i = 1; i < myArray.length + 1; i++) {
11
12            if(i % 3 == 0) {
13
14                System.out.println(i);
15
16            }
17
18        }
19
20
21
22    }
23
24 }
25
```

Below the editor, the Console window is open, showing the output of the program:

```
<terminated> Main (3) [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (26
3
6
9
```

4. Дана скобочная последовательность: `[((( )))( ( ) )]`  
- Можно ли считать эту последовательность правильной?



- Если ответ на предыдущий вопрос “нет”, то что необходимо в ней изменить, чтоб она стала правильной?

Ответ:

- нельзя, [((( )))(( ))], т.к. не хватает 1 открывающей квадратной скобки ([((( )))(( ))]) и одной закрывающей круглой ([((( )))(( )))];
- нужно добавить недостающие скобки указанных типов.