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labs5.java ×

```java
 5  public class labs5 {
 6
 7      public static void main(String[] args) {
 8          Scanner sc = new Scanner(System.in);
 9
10          System.out.print("Enter a string: ");
11          String input = sc.nextLine();
12
13          String original = input.toLowerCase(); // Convert input to | for case-insensitive comparison
14          String reversed = "";
15
16          // Reverse the string
17          for (int i = original.length() - 1; i >= 0; i--) {
18              reversed += original.charAt(i);
19          }
20
21          if (original.equals(reversed)) {
22              System.out.println("\"" + input + "\" is a palindrome.");
23          } else {
24              System.out.println("\"" + input + "\" is not a palindrome.");
25          }
26
27          sc.close();
28      }
29  }
30
```

Outline ×

- palindromjava
- labs5
  - main(String[]) : void

Problems   Javadoc   Declaration   Console ×

<terminated> labs5 [Java Application] C:\Users\ELCOT\Desktop\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v

```
Enter a string: level
"level" is a palindrome.
```

Writable   Smart Insert   13 : 68 : 328

```
16        // Count the number of digits
17        while (originalNumber != 0) {
18            originalNumber /= 10;
19            digits++;
20        }
21
22        originalNumber = number;
23
24        // Calculate the Armstrong sum
25        while (originalNumber != 0) {
26            remainder = originalNumber % 10;
27            result += Math.pow(remainder, digits);
28            originalNumber /= 10;
29        }
30
31        // Check if the number is an Armstrong number
32        if (result == number) {
33            System.out.println(number + " is an Armstrong number.");
34        } else {
35            System.out.println(number + " is not an Armstrong number.");
36        }
37
38        sc.close();
39    }
40 }
41
```

Outline

- armstrong
  - lab05
    - main(String[]) : void

Problems @ Javadoc Declaration Console ×

<terminated> lab05 [Java Application] C:\Users\ELCOT\Desktop\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.4.v
Enter a number: 407
407 is an Armstrong number.

package-info.java   patterns.java ✕   pattern.java

```java
1  package labs05;
2
3  public class patterns {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7              int columns = 5;
8              for (int i = columns; i >= 1; i--) {
9                  for (int j = 1; j <= i; j++) {
10                     System.out.print("*");
11                 }
12                 System.out.println();
13             }
14         }
15
16
17     }
18
19
20
```

Outline ✕

labs05
patterns
    main(String[]) : void

Problems ● Javadoc ● Declaration ● Console ✕

<terminated> patterns [Java Application] C:\Users\ELCOT\Desktop\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.

```
*****
****
***
**
*
```

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