REGEX WORD VERIFICATION:

```
import java.util.Scanner;
import java.util.regex.Pattern;

public class ConstantChecker {
   public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);

      System.out.print("Enter a word: ");
      String input = scanner.nextLine();

      // Unique regex patterns
      String stringConstant = "^\"[^\"]*\"$";              // Matches "Hello", "123"
      String intConstant = "^[+\\-^]?\\d+$";               // Matches +10, -5, ^42
      String floatConstant = "^[+\\-^]?\\d*\\.\\d+$";      // Matches -3.14, .75, ^1.0
      String charConstant = "^'.'$";                       // Matches 'a', '5', '\n'
      String booleanConstant = "^(True|False|true|false)$";          // Matches True, False

      // Check input and verify using regex patterns and library
      if (Pattern.matches(stringConstant, input)) {
         System.out.println("This is a String Constant.");
      } else if (Pattern.matches(intConstant, input)) {
         System.out.println("This is an Integer Constant.");
      } else if (Pattern.matches(floatConstant, input)) {
```

```
        System.out.println("This is a Float Constant.");
    } else if (Pattern.matches(charConstant, input)) {
        System.out.println("This is a Char Constant.");
    } else if (Pattern.matches(booleanConstant, input)) {
        System.out.println("This is a Boolean Constant.");
    } else {
        System.out.println("Unknown input type.");
    }

    scanner.close();
  }
}
```

UNIQUE KEYWORD FOR DEFINING A CONSTANT

“SEAL”

Declaring a Constant

```
seal num PI = 3.14159;

seal num MAX_USERS = 100;
```

Sealing a Class (Like Java’s final class)

```
seal class Config {
 seal num timeout = 5000;
}
```

Sealing a Function

```
seal function

getAppName() {

  return "MyApp";
}
```