Assignment 4:

Creating a JavaLibs Game

Overview

Section 3 has shown you everything you'll need to recreate a JavaLibs program, similar to the one you played at the beginning of the section. It may take a bit of thinking, but it's a challenge you're definitely ready for. Your program requirements are described below. Good luck, and have fun!

Tasks

Your goal is to create a program similar to JavaLibs. Write a story where certain parts of the resulting story text are modified by the user's input. Prompt the user for various inputs.

You may accept user any number of ways, including a `JOptionPane`, or `Scanner` input from the console. However, choose only one method. Don't use multiple methods of accepting input. Similarly, if you use `JOptionPane` to get input, use `JOptionPane` to show the resulting story.

When you output your story, make sure your all your text is visible at the same time. It's not ok for text to be too long for your computer screen or output window. Your story will need to be spread across several lines instead of being printed in one giant line of output. This helps keep your output clean and your program more user friendly.

It's ok for your program to crash if the user inputs inappropriate data. In other words, It's ok if your program crashes because you've expected the user to input a number, when they've instead input a `String`. We'll cover exception handling later in the course.

Your program must also do the following:

- Accept at least 1 input, to be parsed as a `String`
- Accept at least 1 input, to be parsed as an `int`
- Accept at least 1 input, to be parsed as a `double`
- Use at least 1 input in a question for the user
- Do math with at least 1 `int` input
- Do math with at least 1 `double` input
- Accept at least 10 total inputs

It's ok for this problem set to write your entire program within the main method.

The JavaLibsPractice.java file is available to help you get started.

Program:

```
import java.util.Scanner;
public class MadLibs {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a name: ");
        String name = scanner.nextLine();
        System.out.print("Enter an age: ");
        int age = scanner.nextInt();
        scanner.nextLine();
        System.out.print("Enter a city: ");
        String city = scanner.nextLine();
        System.out.print("Enter an animal: ");
        String animal = scanner.nextLine();
        System.out.print("Enter a verb (present tense): ");
        String verb = scanner.nextLine();
        System.out.print("Enter a number: ");
        int number = scanner.nextInt();
        System.out.print("Enter a temperature: ");
        double temperature = scanner.nextDouble();
        scanner.nextLine();
        System.out.print("Enter an adjective: ");
        String adjective = scanner.nextLine();
        System.out.print("Enter a type of food: ");
        String food = scanner.nextLine();
        System.out.print("Enter a color: ");
        String color = scanner.nextLine();
        int nextAge = age + 1;
        double halfTemperature = temperature / 2.0;
        System.out.println("\nStory:");
        System.out.println("Once upon a time, there was a person named " + name
            + ".");
```

```
        System.out.println(name + " lived in " + city + " and was " + age + "
            years old.");
        System.out.println("One day, " + name + " found a " + animal + " in the
            backyard.");
        System.out.println("It was " + color + " and " + adjective + ", and it
            liked to " + verb + " all day long.");
        System.out.println("In one year, " + name + " would be " + nextAge + "
            years old.");
        System.out.println("The temperature outside was " + temperature + "
            degrees Celsius, which felt like " + halfTemperature + " degrees
            Fahrenheit.");
        System.out.println("While walking in the park, " + name + " decided to
            have " + number + " " + food + "s for lunch.");
        System.out.println("And they lived happily ever after.");
        scanner.close();
    }
}
```

Output:

```
Enter a name: Naruto
Enter an age: 19
Enter a city: hidden leaf village
Enter an animal: nine tail fox
Enter a verb (present tense): run
Enter a number: 106
Enter a temperature: 49
Enter an adjective: long
Enter a type of food: fruits
Enter a color: orange

Story:
Once upon a time, there was a person named Naruto.
Naruto lived in hidden leaf village and was 19 years old.
One day, Naruto found a nine tail fox in the backyard.
It was orange and long, and it liked to run all day long.
In one year, Naruto would be 20 years old.
The temperature outside was 49.0 degrees Celsius, which felt like 24.5 degrees
    Fahrenheit.
While walking in the park, Naruto decided to have 106 fruitss for lunch.
And they lived happily ever after.

=== Code Execution Successful ===
```