

SuperHero Times Tables Task 4 User Manual

Introduction

SuperHero Times Tables Task 4 is an engaging Java Swing application designed to help children practice and master multiplication tables through an interactive and fun superhero-themed interface. This application allows users to select a multiplicand from a dropdown menu, generates random multiplication problems, and provides instant feedback on answers. It also includes a timer feature to track the duration of each round, enhancing the educational experience by adding an element of time management.

How to Run the Program

1. Ensure Java Development Kit (JDK) is Installed:

- Your system needs to have the Java Development Kit installed to compile and execute Java applications.

2. Open a Command Prompt or Terminal:

- Open the command line interface according to your operating system (e.g., Command Prompt on Windows, Terminal on macOS or Linux).

3. Compile the Java File:

- Compile your Java file from the directory that contains the `ExtraCredit` folder. Navigate to this directory in your command line tool, then run the compilation command:

```
bash
javac ExtraCredit\SuperHeroTTask4.java
```

This command will compile your Java file and generate the corresponding `.class` files inside the `ExtraCredit` folder.

4. Run the Compiled Program:

- Execute the compiled class from the same directory. Because your class is part of a package, you need to include the full package path in the command.

```
bash
java ExtraCredit.SuperHeroTTask4
```

Using the SuperHero Times Tables Task 4 Application

1. Interface Components:

- **Number Selector:** A dropdown menu for selecting the multiplicand for the multiplication problems.
- **Product Label:** Displays the current multiplication problem.
- **Answer Field:** Where users type their answers.
- **Control Button:** Starts the session and progresses through questions.
- **Time Label:** Displays the elapsed time for the current round.
- **Rating Label:** Shows the cumulative score after each session.

- **Superhero Image Label:** Enhances the interface with a superhero image to make the learning process more engaging.

2. How to Use the Application:

- **Select Multiplicand:** Choose a number from the dropdown menu to start with.
- **Start the Quiz:** Click the "Start" button to begin. The timer starts counting immediately.
- **Answer Questions:** After each question appears, type your answer in the answer field and click "Next" or press "Enter" to submit.
- **Receive Feedback:** Instant feedback is provided after each submission. The application updates the elapsed time continuously.
- **Complete the Session:** After five questions, the session ends. The application displays the total correct answers and the time taken for the session.

3. Exiting the Application:

- Close the application window or terminate the program from the command line to exit.

Additional Notes

- The application is designed to provide a structured and enjoyable learning experience, encouraging young learners to improve their multiplication skills effectively.