

Project title : Command-Line Typing Speed Tester

Overview of the Project:

This is a simple command-line application created to help the user improve in both typing speed and accuracy. It chooses motivational quotes randomly from a pre-defined list of quotes and asks the user to type out the phrase with maximum speed and accuracy. Then, it computes and displays WPM and a percentage accuracy score.

Features

- Paragraph Randomizing: This automatically chooses a different paragraph for every test using the random library.
 - Time Tracking: Uses the time library to precisely measure how much time it takes for the user to finish the typing task.
- WPM Calculation: Calculates the typing speed, in words per minute, dependent upon the number of words typed and the time elapsed.
- Accuracy Score: This returns the accuracy in percentage form. Note that currently, it is a simple set-based comparison, checking if words exist in the target text, which, while useful as a rough demonstration, has fairly serious limitations.
 - Replay Functionality: Allows the user to start a new test easily without restarting the script.

Technologies/Tools Used

Technology\tPurpose

Python 3: The main programming language used for implementation.

time module Used to measure elapsed time for speed calculation.

random module Used for selecting random paragraphs for the test.

Command Line Interface (CLI)\tThe interface through which the interactions with the application are made.

Steps to Install & Run the Project

Installation is minimal since this project is a single-file Python script and uses only standard libraries.

Prerequisites

Python 3 must be installed on your system.

Running the Script

1. Save the Code: Save the given code into a file called `typing_test.py`.
2. Open Terminal: Open your terminal or command prompt and head to the directory where you've saved the file.
3. Execute: Run the script using the Python interpreter:

Bash

```
python typing_test.py
```

Instructions for Testing

1. Begin Test: Run the script based on the "Steps to Install & Run" section.
2. Wait for Prompt: The script will display an ornamental border and the following instructions⁵.
3. Type the Text: The source paragraph will appear. Start typing the paragraph immediately.
 - o IMPORTANT: Time will be measured from the time the source text is printed.
4. Submit: After you are done typing the phrase, hit Enter.
5. Review Results: The script will output your results including: Total words, Time used, Accuracy and Speed (WPM)⁶.
6. Again: Type yes if you want to try again, anything else to quit (such as no or just press Enter).

Screenshots -

```
PS C:\Users\lenovo> & C:/Users/lenovo/AppData/Local/Microsoft/WindowsApps/python3.13.exe "c:/Users/lenovo/Downloads/Telegram Desktop/Typing Speed Test FINA.py"
-+-+--+--+--+--+--+--+--+--
```

Enter the phrase as fast as possible and with accuracy

Type the following:

Many are sound asleep because they do not know about this gold mine of infinite intelligence and boundless love within themselves.

many are sound asleep because they do not know about this gold mine of infinnite intelligence and boundless love within themselves

```
-+-+--+--+--+--+--+--+--+--
```

```
Total words      : 21
Time used        : 48.63 seconds
Your accuracy    : 81.0 %
Speed is         : 25.91 words per minute
```

```
-+-+--+--+--+--+--+--+--+--
```

Do you want to retry? (Type 'yes' to continue, 'no' to exit):

Do you want to retry? (Type 'yes' to continue, 'no' to exit): yes
Continuing with a new paragraph...

```
-+++--+--+--+--+--+--+--+--
```

Enter the phrase as fast as possible and with accuracy

Type the following:

There is a gold mine within you from which you can extract everything you need to live life gloriously, joyously, and abundantly.

there is gold mine within you from which youu can extract everything you need to live life gloriously joyously and abundantly

```
-+-+--+--+--+--+--+--+--+--
```

```
Total words      : 21
Time used        : 67.22 seconds
Your accuracy    : 68.2 %
Speed is         : 18.74 words per minute
```

```
-+-+--+--+--+--+--+--+--+--
```

Do you want to retry? (Type 'yes' to continue, 'no' to exit): no
Thank you, bye bye.

```
PS C:\Users\lenovo>
```