

# Typing Speed Test

## Problem Statement:

In a world where digital communication is key, typing speed is a valuable skill. Many individuals, whether students, professionals, or enthusiasts, aim to improve their typing speed and accuracy. To address this need, we embark on creating a Python-based typing speed test application. Our goal is to provide users with an engaging tool to assess and enhance their typing abilities.

## Features:

### 1. Dynamic Word Selection:

Our typing speed test offers a variety of randomly selected words for each attempt. This ensures that users face diverse challenges, promoting adaptability and improvement in typing across different words and phrases.

```
# We deduct the start time from end
# time and calculate results using
# timeit function
print(end-start)
else:
print("Wrong Input")

words = ['programming', 'coding', 'algorithm', 'systems', 'python', 'software']

# Give random words for testing the speed of user
word = random.randint(0, (len(words)-1))
```

### 2. Real-Time Results:

The application calculates and displays the time taken by the user to complete the typing test. Real-time feedback allows users to track their progress and identify areas for improvement.

### 3. User-Friendly Interface:

With a clean and intuitive graphical user interface (GUI), our typing speed test application is accessible to users of all levels. Clear instructions and visually appealing elements contribute to a positive user experience.

### 4. Retry Option:

Recognizing that practice is key to improvement, our application allows users to retry the test with a new set of words. This feature encourages users to challenge themselves repeatedly and refine their typing skills.

## Implementation:

### Step 1: Create the Main Window

Set up the main window using Tkinter, defining its title and dimensions. This window serves as the starting point for users to initiate the typing speed test.

### Step 2: Initialize Variables

Initialize variables such as **x** to control the window destruction after the first test. These variables play a crucial role in managing the flow of the application.

### Step 3: Define the game Function

Define the main function, **game()**, which orchestrates the typing speed test. This function manages the creation and destruction of windows, word selection, and the timer for assessing typing speed.

### Step 4: Real-Time Results and Retry Options

Implement the **check\_result()** function within the **game()** function. This function compares the user's input with the randomly selected word, calculates the time taken, and provides feedback. Include buttons for users to submit their input and retry the test.

### Step 5: User Interface Elements

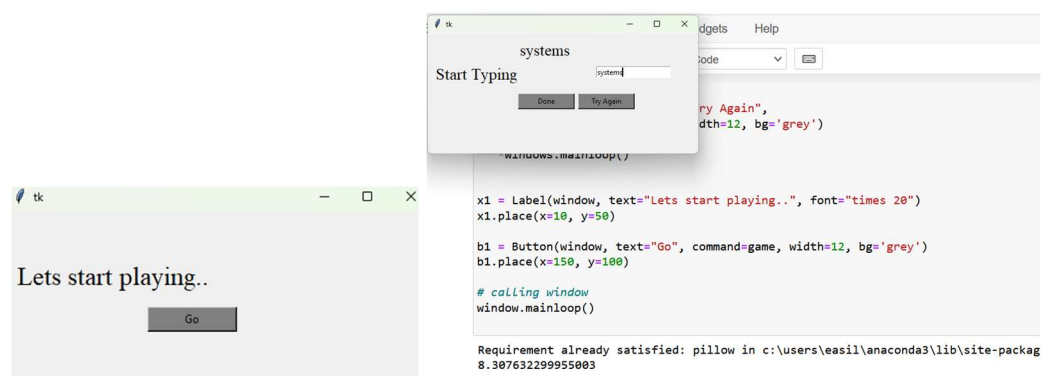
Create labels and buttons to guide users through the typing speed test. Design elements such as the "Start Typing" label and the "Try Again" button contribute to a visually appealing and user-friendly interface.

### Step 6: Display Results

Integrate the display of results within the application, ensuring that users receive immediate feedback on their typing speed and accuracy.

### Step 7: Run the Application

Finalize the implementation by calling the main window and running the application loop.



### Conclusion:

With this Python-based typing speed test, users have the opportunity to assess and enhance their typing skills in a fun and interactive way. The dynamic word selection, real-time results, and user-friendly interface make this application a valuable tool for anyone looking to master the art of typing.

As we conclude this journey of creating a typing speed test, we encourage users to embark on their own typing adventures, continuously challenging themselves to type faster and more accurately.