TYPING SPEED TEST CALCULATOR

The group includes:

03	Anusha Anand	2114110004
05	Gaurav Bajaj	2114110006
60	Harshita Jain	2114110061
63	Raghav Kwatra	2214110584

CODE

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import tkinter as tk
from tkinter import messagebox
import random as r
from time import time


def mistake(partest, usertest):
    partest_words = partest.split()
    usertest_words = usertest.split()
    error = 0
    min_length = min(len(partest_words), len(usertest_words))
    for i in range(min_length):
        if partest_words[i] != usertest_words[i]:
            error += 1
    error += abs(len(partest_words) - len(usertest_words))
    return error


def speed_time(time_s, time_e, userinput):
    time_delay = time_e - time_s
```

```
    time_R = round(time_delay, 2)
    speed = len(userinput) / time_R
    return round(speed)



def start_test():
    test = [
        "The science and engineering of making intelligent machines, especially intelligent computer programs.",
        "A computer program with AI can answer the generic questions it is meant to solve.",
        "Artificial Intelligence is a developmental science.",
        "Robot is an electromechanical technology .",
        "Democracy is a political system .",
        "Guitar is a musical instrument .",
        "Solar energy is a renewable resource .",
        "Psychology is a study of the human mind .",
        "The Great Wall of China is a historical landmark.",
        "Ice cream is a popular dessert .",
        "Internet is a global network of computers .",
        "Hiking is a recreational activity .",
        "Pizza is a beloved Italian dish .",
        "Language is a means of communication ."


    ]
    test1 = r.choice(test)
    label.config(text=test1)
    entry.delete(0, tk.END)
    entry.focus()
    start_time = time()
    start_button['state'] = tk.DISABLED
```

```
    def end_test():
        end_time = time()
        user_input = entry.get()
        speed = speed_time(start_time, end_time, user_input)
        errors = mistake(test1, user_input)
        result = f"Speed: {speed} w/sec\nErrors: {errors}"
        messagebox.showinfo("Test Result", result)
        start_button['state'] = tk.NORMAL

    submit_button.config(command=end_test)



root = tk.Tk()
root.geometry('940x735+200+10')

root.title("Typing Speed Test")

mainframe = tk.Frame(root, bd=4)
mainframe.grid()

titleframe = tk.Frame(mainframe, bg='pink')
titleframe.grid()

titleLabel = tk.Label(titleframe, text='TYPING TYCOON', font=('algerian', 28, 'bold'), bg='BLACK',
fg='white', width=48,
                      bd=10)
titleLabel.grid(pady=5)

label = tk.Label(root, text="", font=("Helvetica", 22))
```

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label.grid(pady=20)


entry = tk.Entry(root, font=("Helvetica", 24), width=50, bd=2, fg='pink')
entry.grid(pady=20)


button_s = tk.Frame(root, bd=4)
button_s.grid()


start_button = tk.Button(button_s, text="Start Test", command=start_test, state=tk.NORMAL,
font=("Helvetica", 14),
                         width=10, height=1)
start_button.grid(row=0, column=0)


submit_button = tk.Button(button_s, text="Submit", font=("Helvetica", 14), width=10, height=1)
submit_button.grid(row=0, column=1, padx=20)


exit_button = tk.Button(button_s, text="Exit", command=root.destroy, font=("Helvetica", 14), width=10,
height=1)
exit_button.grid(row=0, column=2)


root.mainloop()
```
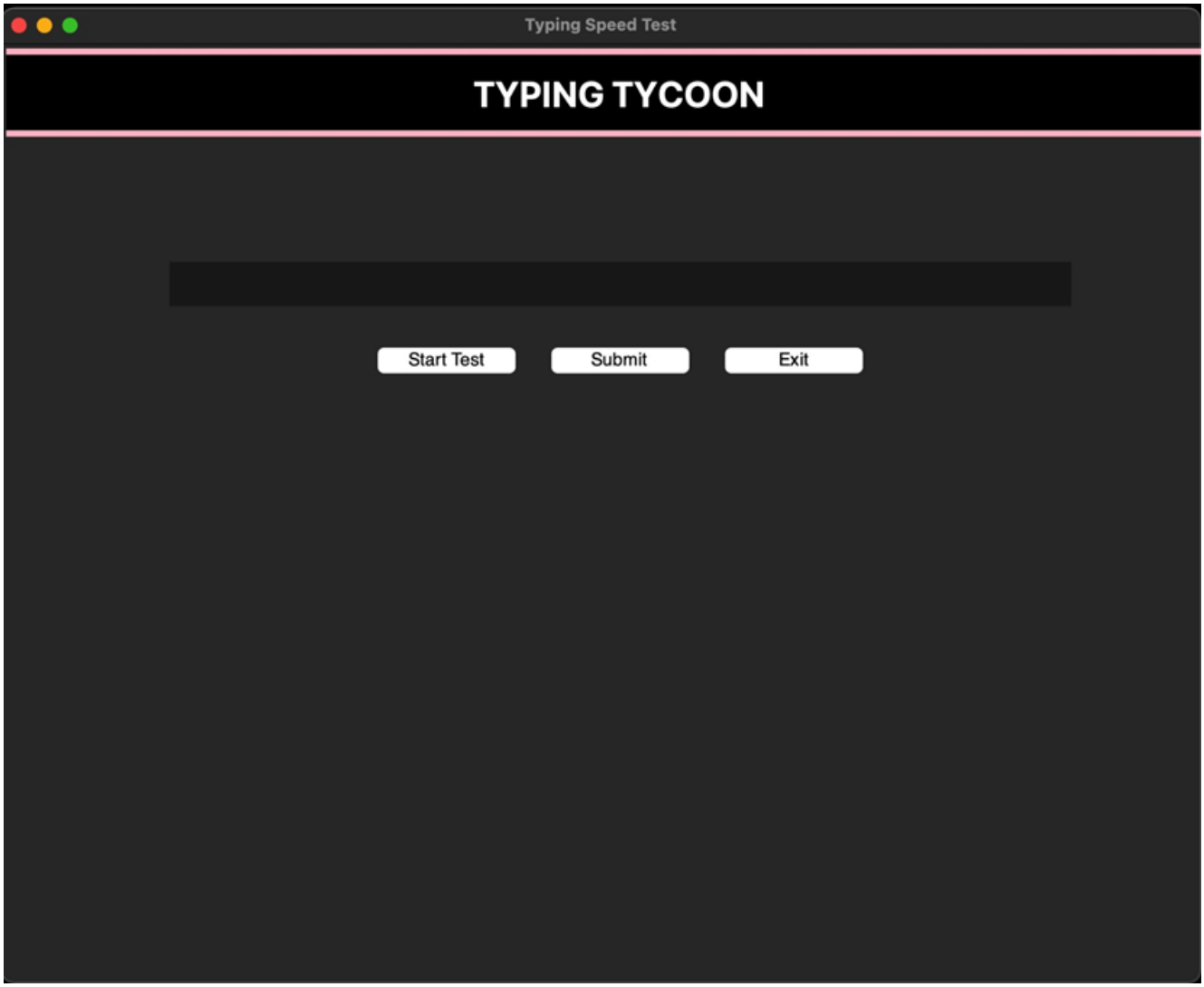
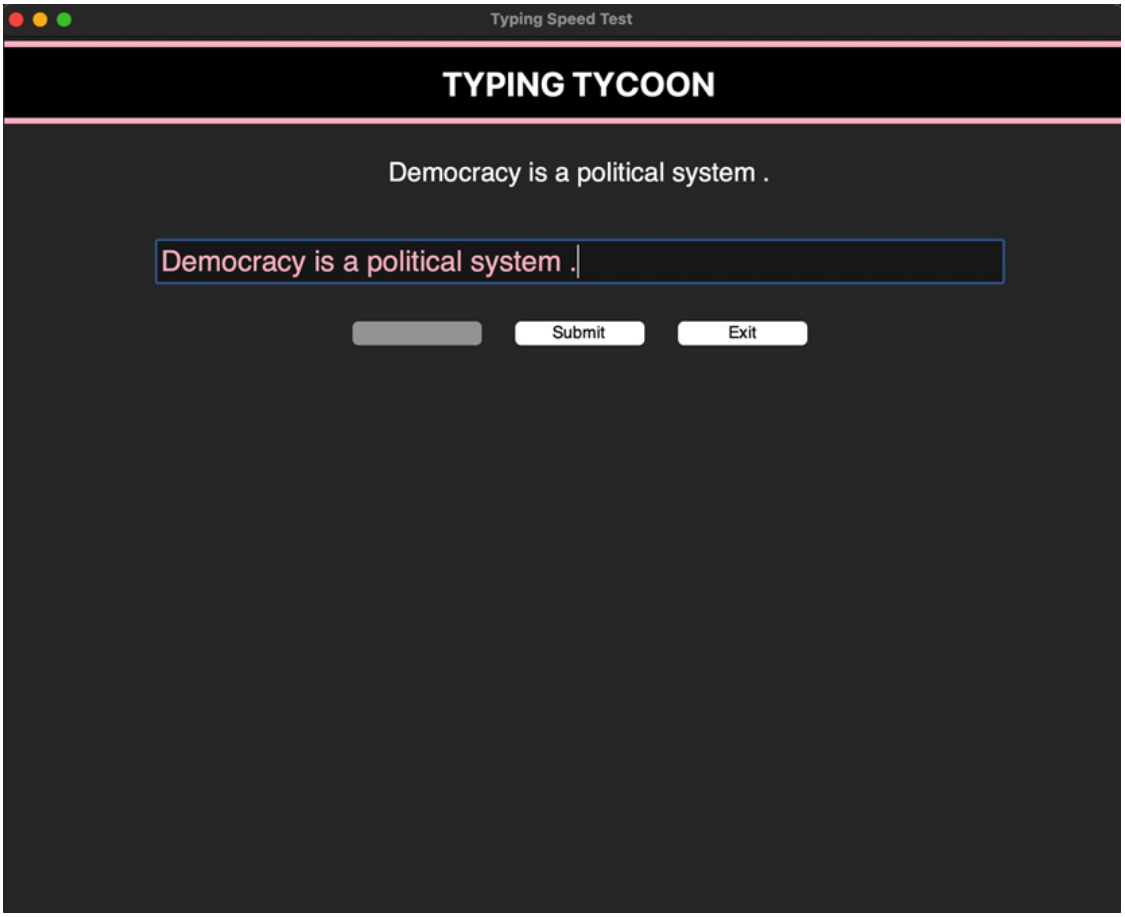
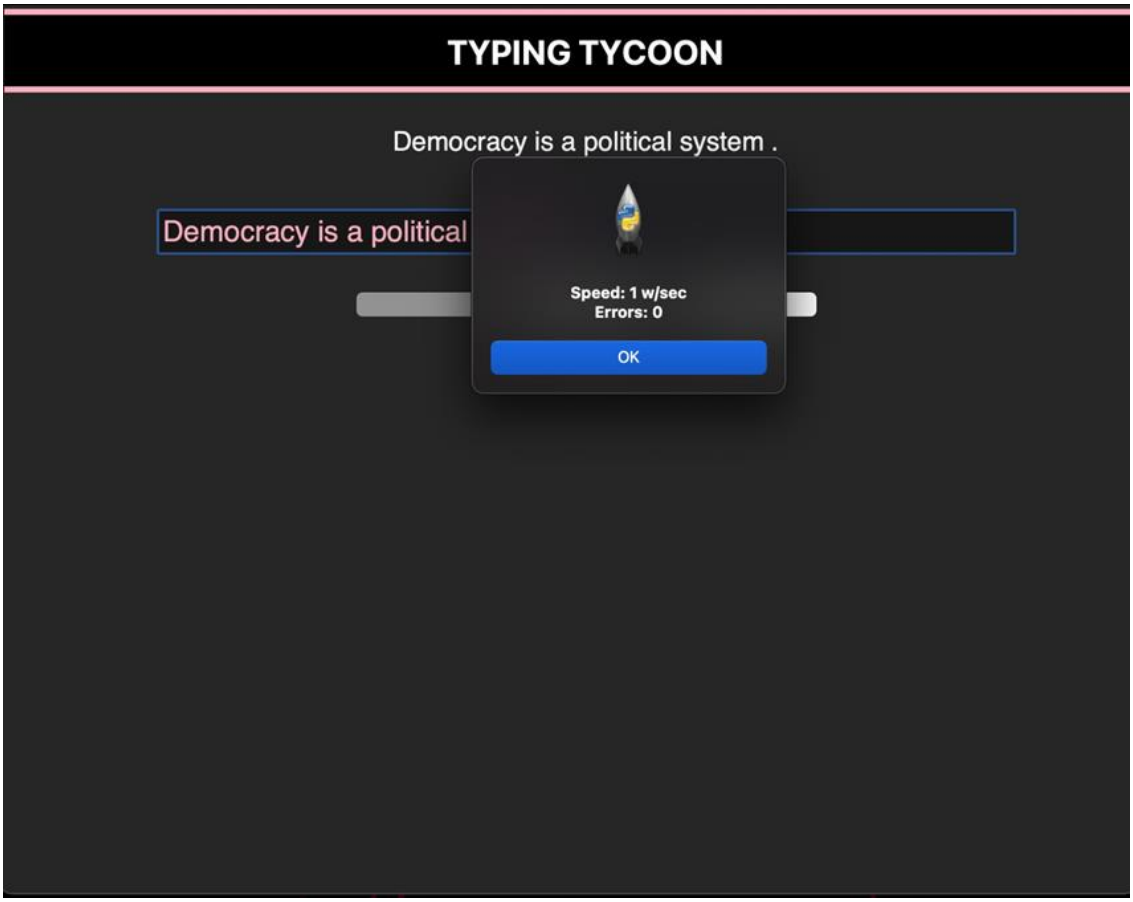
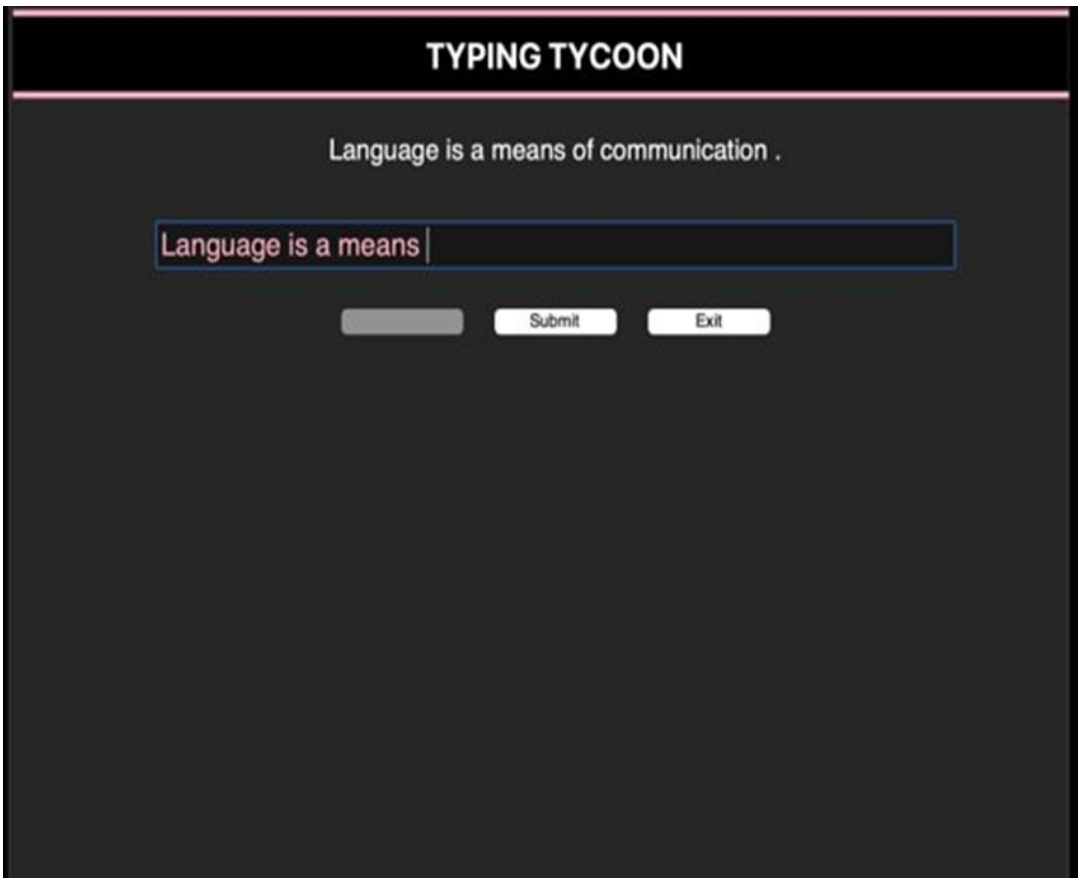
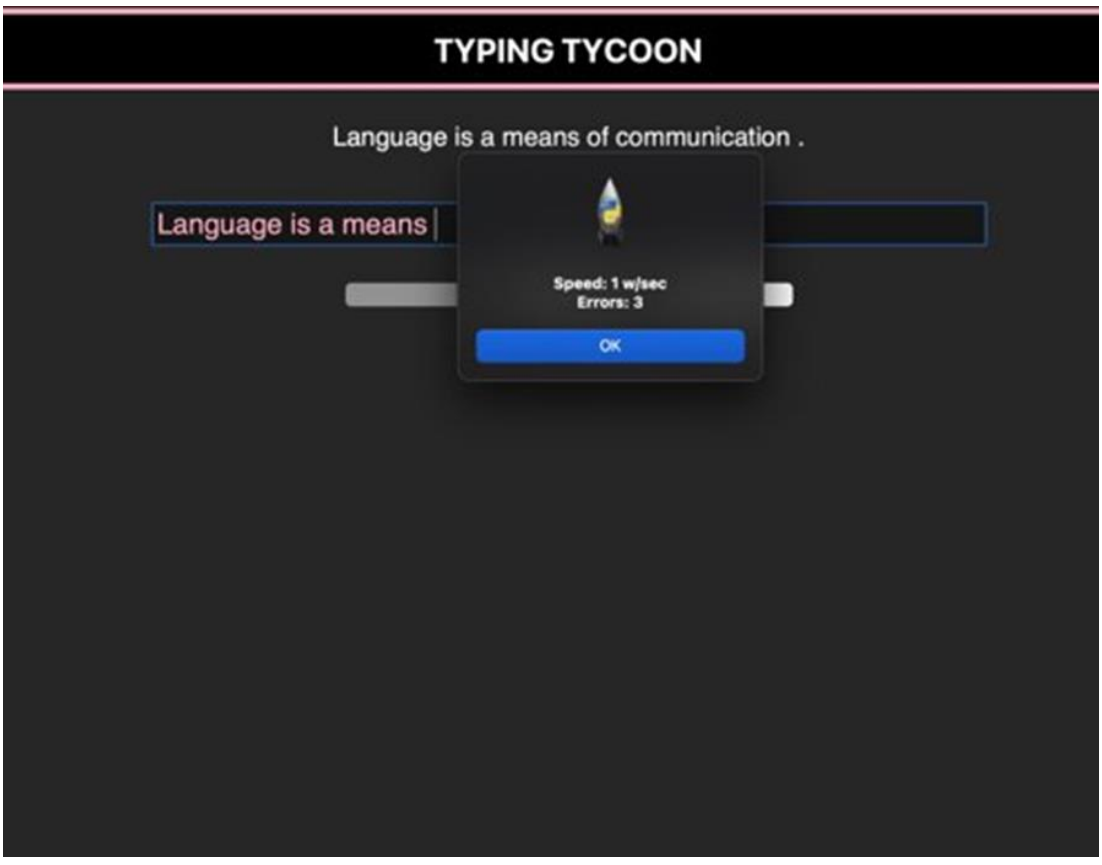

RESULTS




Typing Speed Test
TYPING TYCOON
Democracy is a political system .
Democracy is a political system .
Submit
Exit


TYPING TYCOON
Democracy is a political system .
Democracy is a political
Speed: 1 w/sec
Errors: 0
OK


TYPING TYCOON
Language is a means of communication .
Language is a means
Submit
Exit


TYPING TYCOON
Language is a means of communication .
Language is a means
Speed: 1 w/sec
Errors: 3
OK