

Summary

The Filename Time Suffix generator is a simple Python program with a Tkinter GUI that generates a number sequence based on the current date and time. I'm planning to modify the script to append automated file names for snapshots and version control applications with files.

The sequence is displayed in a large Label widget, and a "Generate Sequence" button is provided to generate a new sequence. A "Copy to Clipboard" button is also provided to copy the generated sequence to the clipboard. When the button is clicked, the sequence is copied to the clipboard using the pyperclip module, and a "Copied!" message is displayed in a small Label widget below the "Copy to Clipboard" button.

The program is designed to be simple and user-friendly, with large buttons and easy-to-read labels. It provides a convenient way for users to generate and copy number sequences to the clipboard, without having to remember or type out long sequences of numbers themselves.

Code

```
# Generate a filename suffix specific to the time that it was generated.
# Best used for snapshots.

import datetime
import tkinter as tk
import pyperclip

def add_zero(value):
    if value < 10:
        return '0' + str(value)
    else:
        return str(value)

def generate_sequence():
    # Get current date and time
    now = datetime.datetime.now()

    # Format date and time as numbers
    month = add_zero(now.month)
    day = add_zero(now.day)
    year = str(now.year)
    hour = str(now.hour)
    minute = str(now.minute)

    # Convert hour to 24-hour base
    if hour != '12' and now.strftime('%p') == 'PM':
        hour = str(int(hour) + 12)

    # Concatenate numbers into sequence
    sequence = year + month + day + hour + minute

    # Update labels
    sequence_label.config(text=sequence)
    status_label.config(text="Generated!")
    # Print sequence
    # print(sequence)

# Function to copy sequence to clipboard
def copy_to_clipboard():
    sequence = sequence_label.cget("text")
```

```

pyperclip.copy(sequence)
status_label.config(text="Copied!")

# Create Tkinter window
root = tk.Tk()
root.title("Filename Time Suffix")
root.geometry("300x250+100+100") # Set window size and position
root.lift() # Bring window to the front

# Create label to display number sequence
sequence_label = tk.Label(root, text="", font=("Arial", 18), pady=20)
sequence_label.pack()

# Create button to generate number sequence
generate_button = tk.Button(root, text="Generate Sequence", font=("Arial",
    14), command=generate_sequence)
generate_button.pack()

# Create button to copy sequence to clipboard
copy_button = tk.Button(root, text="Copy to Clipboard", font=("Arial", 14),
    command=copy_to_clipboard)
copy_button.pack()

# Create label to display "Copied!" message
status_label = tk.Label(root, text="", font=("Arial", 14))
status_label.pack()

# Run Tkinter event loop
root.mainloop()

```

Snippet

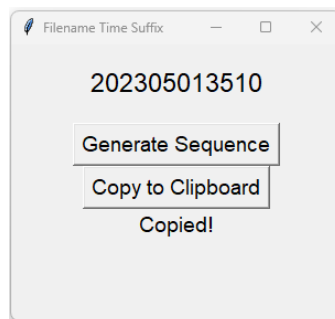


Figure 1: Snippet from running the Python script above.