```
In [18]: pip install pyperclip
```

Requirement already satisfied: pyperclip in c:\users\roy62\anaconda3\lib\site-pac
kages (1.9.0)Note: you may need to restart the kernel to use updated packages.

Simple tkinter app

```
In [36]: import tkinter as tk

         # function to called when button is clicked
         def on_button_click():
             label.config(text = 'Button clicked')

         #create the main application window
         root = tk.Tk()
         root.title('Simple tkinter app')

         #create label widget
         label = tk.Label(root, text ='hello Tkinter')
         label.pack(pady=20)

         # button creation
         button = tk.Button(root, text = 'Click me ', command = on_button_click)
         button.pack(pady=20)

         root.mainloop()
```

Password Generator

```
In [34]: from tkinter import *
         import random, string
         import pyperclip

         root = Tk()
         root.geometry("400x400")
         root.resizable(0,0)
         root.title("PYTHON PROJECT  - PASSWORD GENERATOR")

         Label(root, text='PASSWORD GENERATOR', font='arial 15 bold').pack()
         Label(root, text='Python', font='arial 15 bold').pack(side=BOTTOM)

         pass_label = Label(root, text='PASSWORD LENGTH', font='arial 10 bold').pack()
         pass_len = IntVar()
         length = Spinbox(root, from_=8, to_=32, textvariable=pass_len, width=15).pack()
         pass_str = StringVar()

         def Generator():
             password = []

             # Ensuring at least one character from each type (Uppercase, Lowercase, Digi
             if pass_len.get() >= 4:
                 password.append(random.choice(string.ascii_uppercase))
                 password.append(random.choice(string.ascii_lowercase))
                 password.append(random.choice(string.digits))
                 password.append(random.choice(string.punctuation))
```

```python
        # Fill the rest with random choices until the specified length
        for _ in range(pass_len.get() - 4):
            password.append(random.choice(string.ascii_uppercase + string.ascii_

        # Shuffle to ensure randomness
        random.shuffle(password)
    else:
        # If length is less than 4, just fill the required length with random ch
        for _ in range(pass_len.get()):
            password.append(random.choice(string.ascii_uppercase + string.ascii_

    # Convert list to string and set it to the variable
    pass_str.set(''.join(password))


def Copy_password():
    pyperclip.copy(pass_str.get())

Button(root, text='GENERATE PASSWORD', command=Generator).pack(pady=5)
Entry(root, textvariable=pass_str).pack()
Button(root, text='COPY TO CLIPBOARD', command=Copy_password).pack(pady=5)

root.mainloop()
```

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