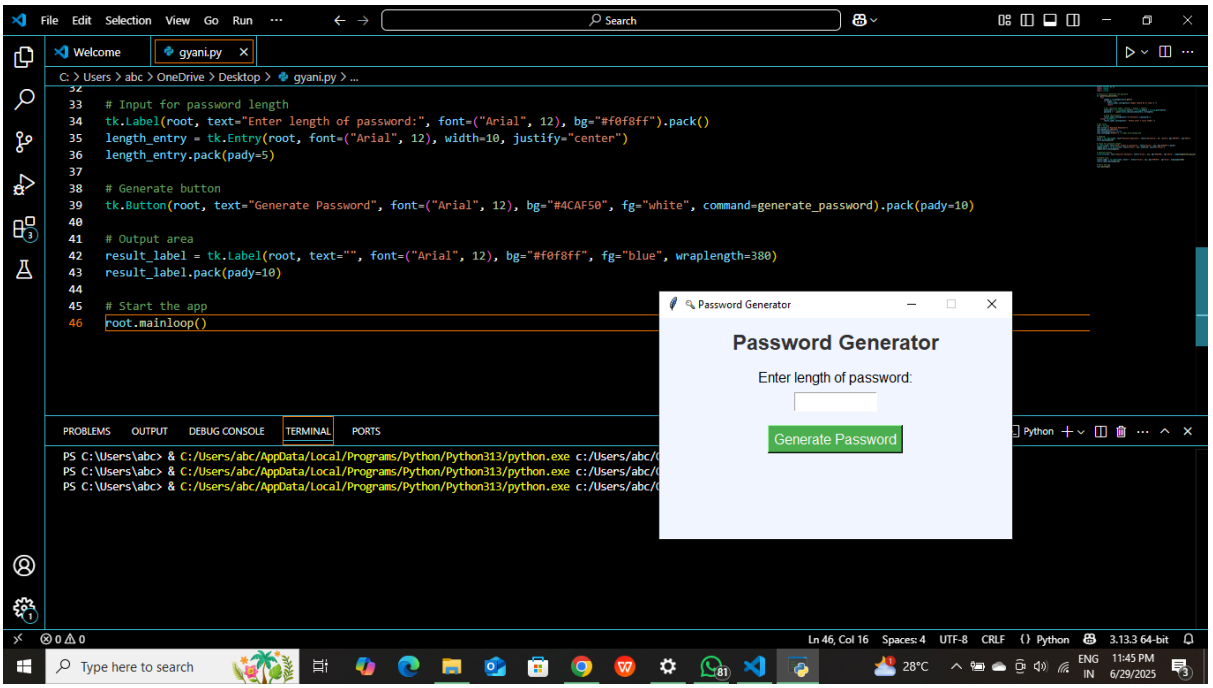
PASSWORD Generator




```
import tkinter as tk
import random
import string

# Function to generate the password
def generate_password():
    try:
        length = int(length_entry.get())
        if length < 4:
            result_label.config(text="Length should be at least 4.")
            return

        # All character types: letters + digits + symbols
        characters = string.ascii_letters + string.digits + string.punctuation
        password = ''.join(random.choices(characters, k=length))

        # Show the password
        result_label.config(text=f"🔐 Password:\n{password}")
    except ValueError:
        result_label.config(text="⚠ Please enter a valid number.")

# GUI setup
root = tk.Tk()
root.title("🔑 Password Generator")
root.geometry("400x250")
root.resizable(False, False)
root.config(bg="#f0f8ff")  # Light blue background
```

```
# Heading
title = tk.Label(root, text="Password Generator", font=("Helvetica", 18, "bold"), bg="#f0f8ff",
fg="#333")
title.pack(pady=10)

# Input for password length
tk.Label(root, text="Enter length of password:", font=("Arial", 12), bg="#f0f8ff").pack()
length_entry = tk.Entry(root, font=("Arial", 12), width=10, justify="center")
length_entry.pack(pady=5)

# Generate button
tk.Button(root, text="Generate Password", font=("Arial", 12), bg="#4CAF50", fg="white",
command=generate_password).pack(pady=10)

# Output area
result_label = tk.Label(root, text="", font=("Arial", 12), bg="#f0f8ff", fg="blue",
wraplength=380)
result_label.pack(pady=10)

# Start the app
root.mainloop()
```