

```

In [1]: 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,
    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))

        # 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.a

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

    # 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()

```

In []:

```
In [2]: from tkinter import *  
import random, string  
import pyperclip
```

```
In [3]: root = Tk()  
root.geometry("400x400")  
root.resizable(0,0)  
root.title("PYTHON PROJECT - PASSWORD GENERATOR")
```

Out[3]: ''

```
In [4]: Label(root, text='PASSWORD GENERATOR', font='arial 15 bold').pack()  
Label(root, text='Python', font='arial 15 bold').pack(side=BOTTOM)
```

```
In [5]: 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).pa  
pass_str = StringVar()
```

```
In [ ]:
```