

Password Generator

Import Useful Libraries

```
In [1]: from tkinter import *
import random, string
import pyperclip
```

Initialize the window and add heading in it

```
In [2]: root =Tk()
root.geometry("350x250")
root.resizable(0,0)
root.title("Password Generator")

# Heading
heading = Label(root, text = 'PASSWORD GENERATOR' , font = 'arial 15 bold').pack(pady=20)
```

Select Password length

```
In [3]: 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()
```

Password Generator Function

```
In [4]: pass_str = StringVar()

def Generator():
    password = ''
    for x in range (0,4):
        password = random.choice(string.ascii_uppercase)+random.choice(string.ascii_lowercase)+ \
                    random.choice(string.digits)+random.choice(string.punctuation)
    for y in range(pass_len.get()- 4):
        password = password+random.choice(string.ascii_uppercase + string.ascii_lowercase + string.digits + string.punctuation)
    pass_str.set(password)
```

Create Buttons and Entry

```
In [5]: Button(root, text = "GENERATE PASSWORD" , command = Generator ).pack(pady= 5)

Entry(root , textvariable = pass_str).pack()

def Copy_password():
    pyperclip.copy(pass_str.get())
Button(root, text = 'COPY TO CLIPBOARD', command = Copy_password).pack(pady=5)
```

Execute the Program

```
In [6]: root.mainloop()
```