```
1 from tkinter import *
 2 from tkinter import messagebox
 3 from random import choice, randint, shuffle
 4 import pyperclip
 5 import json
 6
 7 # ----- PASSWORD GENERATOR
   ----- #
 8
 9 #Password Generator Project
10 def generate_password():
      letters = ['a', 'b', 'c', 'd', 'e', 'f', 'g', 'h'
11
     'i', 'j', 'k', 'l', 'm', 'n', 'o', 'p', 'q', 'r',
  s', 't', 'u', 'v', 'w', 'x', 'y', 'z', 'A', 'B', 'C'
   , 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', '
  N', '0', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X'
   , 'Y', 'Z']
     numbers = ['0', '1', '2', '3', '4', '5', '6', '7'
12
  , '8', '9']
      symbols = ['!', '#', '$', '%', '&', '(', ')', '*'
13
  , '+']
14
15
      password_letters = [choice(letters) for _ in
  range(randint(8, 10))]
      password_symbols = [choice(symbols) for _ in
16
  range(randint(2, 4))]
      password_numbers = [choice(numbers) for _ in
17
  range(randint(2, 4))]
18
      password_list = password_letters +
19
  password_symbols + password_numbers
20
      shuffle(password_list)
21
22
      password = "".join(password_list)
      password_entry.insert(0, password)
23
24
      pyperclip.copy(password)
25
26 # ----- SAVE PASSWORD
27 def save():
28
```

with open("data.json") as data\_file:

data = json.load(data\_file)

64

65 66 try:

102 email\_entry.grid(row=2, column=1, columnspan=2)
103 email\_entry.insert(0, "lenargasimov@gmail.com")

101 email\_entry = Entry(width=35)

- 104 password\_entry = Entry(width=21)
- 105 password\_entry.grid(row=3, column=1)
- 106
- 107 # Buttons
- 109 search\_button.grid(row=1, column=2)
- 111 generate\_password\_button.grid(row=3, column=2)
- 112 add\_button = Button(text="Add", width=36, command= save)
- 113 add\_button.grid(row=4, column=1, columnspan=2)
- 114
- 115 window.mainloop()