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1  '''PROJECT TITLE: PASSWORD GENERATOR
2  CODE LANGUAGE: PYTHON 3.7.0a3(32-bit)
3  FILE NAME: passwordGenerator.py'''
4
5  '''SOURCE CODE:'''
6  import random
7  from tkinter import *
8  from tkinter.ttk import *
9  import time
10 import datetime
11
12 def qwe(len,ch):
13     def copy():
14         import pyperclip
15         c=""
16         s=(lis.get(0,END))
17         for i in s:
18             c+=i+"\n"
19         pyperclip.copy(c.strip())
20     def Reset():
21         lis.delete(0,END)
22         E1.delete(0,END)
23         entry5.delete(0,END)
24         entry5.insert(0,"Enter the count")
25     def msg(s):
26         entry5.insert(END, s)
27     def reqpw_except(cc):
28         reqPWs=cc
29         try:
30             aa=int(reqPWs)
31             if(aa==0):
32                 si="Enter count greater than 0"
33                 return msg(si)
34             elif aa<0:
35                 si="Error:Negative value!"
36                 return msg(si)
37             else:return aa
38         except ValueError:
39             si="Error:Invalid Input count"
40             return msg(si)
41     def qExit():
42         root1.destroy()
43     def multiple(len,ch):
44         entry5.delete(0,END)
45         count=E1.get()
46         count4=reqpw_except(count)
47         password=""
48         for i in range(0, count4):
49             for j in range(len):
50                 password+=random.choice(ch)
51                 password+="\n"
52         entry5.insert(0,"Copy your passwords")
53         lis.delete(0,END)
54         for index,i in enumerate(password.split("\n")):
55             lis.insert(index,i)
56
57     # create GUI window
58     root1=Tk()
59     root1.title("Multiple Password generator")
60     fm1 = Frame(root1, width = 20, relief = SUNKEN)
61     fm1.pack(side = TOP,padx=10,pady=10)
62     fm = Frame(root1, width = 20, relief = SUNKEN)
63     fm.pack(side = TOP,padx=10,pady=10)
64     fm2 = Frame(root1, width = 20, relief = SUNKEN)
65     fm2.pack(side = TOP,padx=10,pady=10)
66     fm3 = Frame(root1, width = 20, relief = SUNKEN)
67     fm3.pack(side = TOP,padx=10,pady=10)
68     fm4 = Frame(root1, width = 20, relief = SUNKEN)
69     fm4.pack(side = TOP,padx=10,pady=10)
70     password_count = Label(fm1, text=" Password Count: ",font = ('timesnewroman',
71     12,'bold'))
72     password_count.pack(side=LEFT,padx=2,pady=2)

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72 E1 = Entry(fm1,font = ('timesnewroman', 15))
73 E1.pack(side = LEFT)
74 lblInfo =Label(fm, font=('timesnewroman',12,'bold'),text = " Message:
75 ")
76 lblInfo.pack(side=LEFT,padx=2,pady=2)
77 entry5 =Entry(fm,width=35,font = ('timesnewroman', 15, 'bold'))
78 entry5.pack(side=LEFT)
79 entry5.insert(0,"Enter password count")
80 scrollbar=Scrollbar(fm2)
81 scrollbar.pack(side=RIGHT, fill=Y)
82 lis=Listbox(fm2,width=50,height=10,font=('timesnewroman,14,bold'))
83 lis.pack(side=LEFT,padx=5,pady=5,expand=1)
84 lis.config(yscrollcommand=scrollbar.set)
85 scrollbar.config(command=lis.yview)
86 generate_button = Button(fm3,text="Generate",command=lambda:multiple(len,ch))
87 generate_button.pack(side=LEFT)
88 copy_button1 = Button(fm3, text="Copy",command=copy)
89 copy_button1.pack(side=LEFT)
90 reset1= Button(fm3, text="Reset",command=Reset)
91 reset1.pack(side=LEFT)
92 exit1= Button(fm3, text="Exit",command=qExit)
93 exit1.pack(side=LEFT)
94 localtime = time.asctime(time.localtime(time.time()))
95 lblInfo = Label(fm4, font=('timesnewroman',12,'bold'),text =
96 localtime)
97 lblInfo.pack(side=BOTTOM)
98 root.mainloop()
99 #single password generator
100 def length_except(a):
101     length=a
102     try:
103         bb=int(length)
104         if(bb==0 or bb==1 or bb==2 or bb==3):
105             si="Select length(4-32) "
106             return msg(si)
107         elif bb>32:
108             si="Enter the Length less than 32"
109             return msg(si)
110         elif bb<0:
111             si="Error:Negative Value Length"
112             return msg(si)
113         else:
114             return bb
115     except ValueError:
116         si="Error:Invalid Input Length"
117         return msg(si)
118 def msg(s):
119     entry1.insert(END, s+"\n")
120 def single(length,ch):
121     password=""
122     for i in range(0, length):
123         password +=random.choice(ch)
124     return password
125
126 if value==1:
127     return single(length,ch)
128 else:
129     s="select single/multiple"
130     return msg(s)
131 def check(val,ch,length):
132     if val==1:
133         return single(length,ch)
134     elif val==2:
135         if length>=4 and length<=32:
136             qwe(length,ch)
137     else:
138         s="select single/multiple"
139         return msg(s)
140 def calculation():
141     entry.delete(0, END)
142     entry1.delete(0,END)

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142 # Get the length of password
143 length=var1.get()
144 value=var.get()
145 length=length_except(length)
146 password=""
147 num='0123456789'
148 Slet='abcdefghijklmnopqrstuvwxyz'
149 Clet='ABCDEFGHIJKLMNOPQRSTUVWXYZ'
150 punc="!\"#$%&()*+,-./:;<=>?@[\\]^_`{|}~"
151 if v1.get()== 1 and v2.get()== 0 and v3.get()== 0 and v4.get()== 0:
152     ch=num
153     return check(value,ch,length)
154 elif v1.get()== 0 and v2.get()== 0 and v3.get()== 0 and v4.get()== 4:
155     ch=punc
156     return check(value,ch,length)
157 elif v1.get()== 0 and v2.get()== 0 and v3.get()== 3 and v4.get()== 0:
158     ch=Slet
159     return check(value,ch,length)
160 elif v1.get()== 0 and v2.get()== 2 and v3.get()== 0 and v4.get()== 0:
161     ch=Clet
162     return check(value,ch,length)
163 elif v1.get()== 1 and v2.get()== 2 and v3.get()== 3 and v4.get()== 4:
164     ch=num+punc+Slet+Clet
165     return check(value,ch,length)
166 elif v1.get()== 0 and v2.get()== 2 and v3.get()== 3 and v4.get()== 0:
167     ch=Clet+Slet
168     return check(value,ch,length)
169 elif v1.get()== 1 and v2.get()== 0 and v3.get()== 3 and v4.get()== 0:
170     ch=num+Slet
171     return check(value,ch,length)
172 elif v1.get()== 1 and v2.get()== 2 and v3.get()== 0 and v4.get()== 0:
173     ch=num+Clet
174     return check(value,ch,length)
175 elif v1.get()== 0 and v2.get()== 0 and v3.get()== 3 and v4.get()== 4:
176     ch=punc+Slet
177     return check(value,ch,length)
178 elif v1.get()== 0 and v2.get()== 2 and v3.get()== 0 and v4.get()== 4:
179     ch=punc+Clet
180     return check(value,ch,length)
181 elif v1.get()== 1 and v2.get()== 0 and v3.get()== 0 and v4.get()== 4:
182     ch=punc+num
183     return check(value,ch,length)
184 elif v1.get()== 1 and v2.get()== 0 and v3.get()== 3 and v4.get()== 4:
185     ch=punc+num+Slet
186     return check(value,ch,length)
187 elif v1.get()== 1 and v2.get()== 2 and v3.get()== 0 and v4.get()== 4:
188     ch=punc+Clet+num
189     return check(value,ch,length)
190 elif v1.get()== 1 and v2.get()== 2 and v3.get()== 3 and v4.get()== 0:
191     ch=num+Clet+Slet
192     return check(value,ch,length)
193 elif v1.get()== 0 and v2.get()== 2 and v3.get()== 3 and v4.get()== 4:
194     ch=punc+Slet+Clet
195     return check(value,ch,length)
196 else:
197     return msg("Tick options")
198 def generate():
199     password = calculation()
200     entry.insert(END, password)
201     msg("copy your password")
202 def copy1():
203     import pyperclip
204     random_password = entry.get()
205     pyperclip.copy(random_password)
206 def qExit():
207     root.destroy()
208     exit(0)
209 def Reset():
210     v1.set(0)
211     v2.set(0)
212     v3.set(0)
213     v4.set(0)

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214     var.set(0)
215     var1.set("4")
216     entry.delete(0,END)
217     entry1.delete(0,END)
218
219 # Main Function
220 # GUI window
221 root = Tk()
222 root.geometry("590x370")
223 root.title("Password Generator")
224 top = Frame(root, width = 20, relief = SUNKEN)
225 top.pack(side = TOP,padx=10,pady=10)
226 tops = Frame(root, width = 20, relief = SUNKEN)
227 tops.pack(side = TOP,padx=10,pady=10)
228 radio = Frame(root, width = 20, relief = SUNKEN)
229 radio.pack(side = TOP,padx=10,pady=10)
230 f2 = Frame(root, width = 20, height = 20,relief = SUNKEN)
231 f2.pack(side = TOP,padx=10,pady=10)
232 fw = Frame(root, width = 20, height = 20,relief = SUNKEN)
233 fw.pack(side = TOP,padx=10,pady=10)
234 last = Frame(root, width = 20, height = 20,relief = SUNKEN)
235 last.pack(side = TOP,padx=10,pady=10)
236 f5 = Frame(root, width = 20, height = 20,relief = SUNKEN)
237 f5.pack(side = TOP,padx=10,pady=10)
238 f4= Frame(root, width = 20, height = 20,relief = SUNKEN)
239 f4.pack(side = TOP,padx=10,pady=10)
240
241 var=IntVar()
242 v1=IntVar()
243 v2=IntVar()
244 v3=IntVar()
245 v4=IntVar()
246 var1=StringVar()
247
248 Random_password = Label(last, text="Generated Password: ",font = ('timesnewroman',
249 12,'bold'))
250 Random_password.pack(side=LEFT,padx=5)
251 entry =Entry(last,width=30,font = ('timesnewroman', 15, 'bold'))
252 entry.pack(side=LEFT,padx=2,fill=Y)
253 c_label = Label(top, text="Length: ",font = ('timesnewroman', 12, 'bold'))
254 c_label.pack(side=LEFT,padx=5)
255 combo = Combobox(top, textvariable=var1,font = ('timesnewroman', 15))
256 combo['values'] = (4,5,6,7,8, 9, 10, 11, 12, 13, 14, 15, 16,
257 17, 18, 19, 20, 21, 22, 23, 24, 25,
258 26, 27, 28, 29, 30, 31, 32)
259 combo.current(0)
260 combo.bind('<<ComboboxSelected>>')
261 a=Checkbutton(tops, text="DIGITS",variable=v1,onvalue=1,offvalue=0)
262 a.pack(side=LEFT,fill=BOTH)
263 b=Checkbutton(tops, text="UPPER", variable=v2,onvalue=2,offvalue=0)
264 b.pack(side=LEFT,fill=BOTH)
265 c=Checkbutton(tops, text="LOWER", variable=v3,onvalue=3,offvalue=0)
266 c.pack(side=LEFT,fill=BOTH)
267 d=Checkbutton(tops, text="SYMBOLS", variable=v4,onvalue=4,offvalue=0)
268 d.pack(side=LEFT,fill=BOTH)
269 radio_low = Radiobutton(radio,text="SINGLE PASSWORD", variable=var, value=1)
270 radio_low.pack(side=LEFT,fill=BOTH)
271 radio_strong = Radiobutton(radio, text="MULTIPLE PASSWORDS", variable=var, value=2)
272 radio_strong.pack(side=LEFT,fill=BOTH)
273 generate_button = Button(f2,text="Generate",command=generate)
274 generate_button.pack(side=LEFT,fill=BOTH)
275 copy_button = Button(f5, text="Copy",command=copy1)
276 copy_button.pack(side=LEFT)
277 copy_button1 = Button(f5, text="Exit",command=qExit)
278 copy_button1.pack(side=RIGHT)
279 btnReset = Button(f5,text = "Reset",command = Reset).pack(side=RIGHT)
280 lblInfo =Label(fw,font=('timesnewroman',12,'bold'),text = " Message:
281 ")
282 lblInfo.pack(side=LEFT,padx=2,pady=2)
283 entry1 =Entry(fw,width=36,font = ('timesnewroman', 15, 'bold'))
284 entry1.pack(side=LEFT)

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284 localtime = time.asctime(time.localtime(time.time()))
285 lblInfo = Label(f4, font=('timesnewroman',12,'bold'),text =
localtime)
286 lblInfo.pack(side=BOTTOM)
287 root.mainloop()
288
289 '''END CODE'''
290
```