```
#imports#
 2
 3 import webbrowser
 4 #
 5 #variables#
 6 #
 7
  login_details = -1
 8
  url_test = "https://www.google.com/maps/search/" # Default google maps url
9
10 #definitions#
11 #
12 def return file():
       with(open("data.txt","r"))as(file): # Opens the file as "file"
13
14
          data = eval(file.read()) # Turns the string file into a readable list →
15
       # File closed with sub-proccess
16
       return(data) # Returns the list
17 #
18 def login():
       username_passwords = return_file()[0] # Collects username/passwords from
19
        the file.
       username_input = input("username-: ")
20
21
       password input = input("password-: ")
22
       for(user_data)in(username_passwords):
23
          if(username_input==user_data[0] and password_input==user_data[1]):
24
              username_passwords = username_passwords.index(user_data)
25
       return(username_passwords) # Returns all of the usernames and passwords
26 #
   def display(data): # Essentially another print() but in a different format.
     the argument "data" is a list of strings to be printed.
       print("\n"*100)
28
29
       print("[ {|>=~=~=~=~=~=~=~=~=~=<|}</pre>
                                                                1") #
30
       print("[ {|-----| FOODBOT |-----|}
        Displays the foodbot topbar #
       print("[ {|>=~=~=~=~=~=~=~=~=~=<|}</pre>
31
                                                              ]") #
       print("[ {|"+(" "*45)+"|}
32
                                1")
33
       for(data_packet)in(data): # Loops round each given line to print.
34
   # The block of code below aligns the text into the middle of the menu →
35
36
   len = (" "*round((45-len(data packet))/2))
37
          end_result = "[ { |¬"+_len+data_packet+_len+"¬|} ]"
38
39
          split_results = end_result.split("¬")
40
          if(len(end result)>59):
              end_result = split_results[0]+split_results[1][1:]+split_results
41
                [2]
42
          elif(len(end result)<59):</pre>
              end_result = split_results[0]+" "+split_results[1]+split_results
43
          else:
44
45
              end result = split results[0]+split results[1]+split results[2]
```

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46
           print(end result)
47
   print("[
                 {|"+(" "*45)+"|}
48
                                   1")
49
       print("[
                  { | >=~=~=~=~=~=~=~=~=~=~=~=~=~=~=~=~= < | }
                                                                     1")
       print("\n"*5)
50
51 #
52
   def open_website(food,location):
53
       display([
54
               "Results for "+food+" in "+location+".",
               "Would you like results for", "currently open restaurants?", "", "",
55
               "(0) EXIT
56
               "(1) YES
57
                                  58
               "(2) NO
           ])
59
       input2 = input("~=> ")
60
       while(input2 not in ["0","1","2"]): # Waits until the user inputs a valid ➤
61
         number.
62
           input2 = input("~=> ")
       if input2 == "0":return # If 0 is pressed the webbrowser module will not →
63
         be called and the first menu is shown
       webbrowser.open(url test+food+"+"+location+({"1":" open"}.get(input2)
64
         or"")) # Adds data onto the end of a url to change the search filter on >
         google maps.
65 #
   def location():
66
       locations = return file()[1] # Opens the file list, selecting all items in →
67
          the nested array.
       data = [[],["PLEASE SELECT ONE OF","THE FOLLOWING LOCATIONS",""],[],[]]
68
       for key in locations: # Adds all of the locations to a list accessible via ₹
69
          the display() function
70
           data[1].append("")
           index = str(list(locations).index(key)+1)
71
72
           text = "("+index+") "+key
           data[1].append(text+ " "*(35-len(text)))
73
           data[2].append(index)
74
75
           data[3].append(key)
76
       display(data[1])
77
       input2 = input("~=> ")
78
       while(input2 not in data[2]):
           input2 = input("~=> ")
79
       data[3] = data[3][int(input2)-1]
80
81
       data[0] = locations.get(data[3])
       return data # Returns "data"; the selected location.
82
83 #
   def food_type_tab(typeoffood,location_data): # Displays the type of food
     depending on what location was selected.
85
       file = return_file()[2].get(typeoffood)
86
       print2 = [typeoffood.upper()]
87
       list2 = []
       minus = 0
88
89
       for item in file:
           if item not in location data[0]: minus+=1;continue
90
91
           index = file.index(item)+1-minus
           text = "("+str(index)+") "+item
92
           text = text + " "*(15-len(text))
93
```

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94
             print2.append("")
 95
             print2.append(text)
 96
             list2.append(str(index))
         text = "(0) RETURN" ###### vv
 97
 98
         print2.append("")
         print2.append(text+ " "*(15-len(text))) # Adds another option onto the
 99
           last slot in the menu with the option to EXIT/RETURN to the previous
           'slide'
100
         list2.append("0")
101
         display(print2)
102
         input2 = input("~=> ")
         while(input2 not in list2):
103
             input2 = input("~=> ")
104
105
         if input2 == "0": return # Returns nothing as the menu has been exited.
106
         else:
107
             return(file[int(input2)-1]) # Returns list of food in set locations
               and their type.
108
109 #
110 #maincode#
111 #
112 for(index)in(range(3)): # Goes through a loop 3 times expecting login details →
       to be set to anything other than -1 which means it is logged in.
113
         login details = login()
114
         try:
115
             if(login details>-1):
116
                 print("Successfully logged in.\n")
117
                 break
118
         except:
             print("ERROR! You have entered an incorrect username/password.")
119
120
                 print("You have "+["Two","One"][index]+" attempts remaining.\n")
121
122
             except:
123
                 print("You have entered an incorrect username/password 3 times,
                   program exitting.")
124
                 login_details = -1
125 #
    while(login details!=-1): # If login detials is set to anything other than -1 →
       then the program has recognised that the user is logged in and they gain
       access to the full program.
127
         location data = location()
         print(location data)
128
129
         while(location data):
130
             display([ # First display, showing each available food type
                 "Welcome to the foodbot",
131
                 "What food are you interested in?","","","",
132
                                     ","",
                 "(0) EXIT
133
                 "(1) italian
134
                                    ","",
","",
135
                 "(2) chinese
136
                 "(3) fast food
                 (3) TAST TOOD ","","","",""
137
138
             input2 = input("~=> ")
139
             while(input2 not in ["0","1","2","3","4"]):
140
                 input2 = input("~=> ")
141
142
             if input2 == "0":
```

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143
                 print("goodbye")
                 login_details=-1
144
145
                 break
             chosen = food_type_tab(["italian","chinese","fast food","western
146
               food"][int(input2)-1],location_data) # Calls the food_type_tab()
               function expecting a value seelected from the food list.
             if not chosen: continue
147
148
             else:
                 open_website(chosen,location_data[3]) # Opens the website function →
149
                    sending through all required data
150 #
```