```
...er\source\repos\Task2_Code\Task2_Code\Task2_Code.py
```

```
1 #2d list to hold table orders
 2 tables = [["TABLE 1 - ", 0],["TABLE 2 - ", 0],["TABLE 3 - ", 0],["TABLE →
      4 - ", 0],["TABLE 5 - ", 0],
 3 ["TABLE 6 - ", 0],["TABLE 7 - ", 0],["TABLE 8 - ", 0],["TABLE 9 - ",
     0],["TABLE 10 - ", 0]]
 4
 5 #menu items stored as a dictionary
 6 \text{ menu} = ()
 7 "Nachos": 5.50; "Soup":4.95;
 8 "Burger":10.50; "Brisket": 12.50; "Ribs":15.00;
 9 "Corn":2.50; "Fries":3.00; "Salad":3.25
10
11 #list is used so that the food options are in an order and easier to
12 #also stored as a dictionary so they can be found and stored more
     easily.
13
14 #receives input from user to collect server name and checks that it
     only contains letters
15
16 def get_server_name():
       flag = True
17
18
       while flag:
19
20
           server_name = input('Please enter your name: ')
21
22
23
           if server_name.isalphanumeric() == False:
               print("Sorry you have not entered a recognised name.")
24
               flag = True
25
26
27
           else:
28
               server_name = "Server name: {}".format
                 (server_name.capitalize())
29
               flag = False
30
31
       return server_name
32 #always use 'True' instead of 'true' so that the word used can be
     defined.
33
34 #receives input from user for table number checks it is an integer and >
     that it is within the correct range
35 def get_table_num():
           flag= True
36
37
           while flag:
38
39
40
               table_num = input('Enter table number: ')
41
42
               try:
                   input('Please enter your table number: ')
43
44
               except:
                    print("Sorry, you did not enter a table number")
45
```

```
...er\source\repos\Task2_Code\Task2_Code\Task2_Code.py
46
                     flag = True
47
                else:
48
                     table_num = int(table_num)
49
                     if table_num < 1 or table_num > 9:
50
                         print("Table number must be between 1 and 10")
                         flag = True
51
52
                     else:
53
                         flag = False
54
55
            return table_num
56
57
58 #gets input of required menu item from user and validates it
    def get_menu_item():
60
        flag = True
61
62
        while flag:
63
64
            menu_item = input('Enter menu item. Type x if there are no more >
               items to enter: ')
65
            if menu_item.isalpha() == False:
66
                print("Sorry you have not entered a valid menu item.")
67
68
                flag = True
            elif menu_item == "x" or menu_item == "X":
69
70
                flag = False
            elif menu_item.capitalize() not in menu:
71
72
                print("Sorry you have not entered a valid menu item.")
73
                flag = True
74
            else:
75
                menu_item = menu_item.capitalize()
76
                flag = False
77
78
        return menu_item
79
80
    #gets quantity of item required and validates the input
81
    def get_qty():
82
        flag= True
83
84
        while flag:
85
            qty = input('Enter quantity of item required: ')
86
87
88
            try:
                int(qty)
89
90
            except:
                 print("Sorry, quantity must be a whole number")
91
92
                flag = True
93
            else:
```

qty = int(qty)

flag = True

print("Quantity must be a whole number")

if qty < 1:

94 95

96

97

```
...er\source\repos\Task2_Code\Task2_Code\Task2_Code.py
 98
                     else:
 99
                         flag = False
100
101
        return qty
102 #When you want to order something, it has to be a WHOLE NUMBER ONLY, it →
        can't be 1.5 burgers you are ordering.
103 #to make it more clear to the orderer, make sure to keep it to 'whole
      number' instead of 'positive number'.
104
105
106 #gets user input for discount to be applied
107 def get_discount_choice():
108
        flag = True
109
110
        while flag:
111
112
113
             print("Please choose a discount if you are valid to one")
             print(" Please select a discount below that you may be entitled >
114
                to")
             print(" 1. Early Bird: Monday - Friday 5pm-7pm - 15%")
115
             print(" 2. Staff discount - 25%")
116
             print(" 3. No discount")
117
118
             discount_choice = input("Select a discount to apply:")
119
120
121
             try:
                 int(discount_choice)
122
123
             except:
124
                 print("Sorry, you did not enter a valid option")
125
                 flag = True
126
             else:
127
                 discount_choice = int(discount_choice)
128
                 if discount_choice < 1 or discount_choice > 3:
129
                     print("Discount option must be 1, 2 or 3 only")
130
                     flag = True
131
132
133
                 else:
134
                     if discount_choice == 1:
135
                         discount = 15
136
                     elif discount_choice == 2:
137
                         discount = 25
138
                     else:
139
                         discount = 0
140
                     flag = False
141
142
143
        return discount
```

144

146

145 enter_order = True

147 while enter_order:

```
...er\source\repos\Task2_Code\Task2_Code\Task2_Code.py
```

```
148
149
        print("###############"")
150
        print("#### Gurreb's BBQ order processing system ####")
        print("################"")
151
152
        print("")
153
        print("########## Choose an option ###########")
154
        print("")
155
        print("1. Enter customer order")
156
        print("2. Output bill")
157
        print("The Bill:")
        print("3. Exit")
158
        print("")
159
160
        main_choice = input('Enter order here:')
161
162
     #allows user to enter the customer's order
        if main_choice == "1":
163
164
            server_name = get_server_name()
165
            table_num = get_table_num()
            tables[table_num].append(server_name)
166
167
            item_enter = True
            subtotal = 0
168
            tables[table_num-1].remove(0)
169
170
171 while item_enter:
172
173
                item_choice = get_menu_item()
174
                if item_choice == "X" or item_choice == "x":
175
176
                    tables[table_num -1 ].append(subtotal)
177
                    item_enter = False
178
                else:
179
                    quantity = get_qty()
180
                    price = menu[item_choice]
                    cost = price * quantity
181
182
                    tables[table_num -1].append(item_choice)
                    tables[table_num -1].append(quantity)
183
184
                    tables[table_num -1].append(cost)
185
                    subtotal = subtotal + (cost * quantity)
186
187
    flag = False
188
189
     #finds and outputs the required bill
190 if main_choice == "2":
191
       table_num = get_server_name()
192
       discount = get_discount_choice()
193
       print(str(tables[table_num -1][0]))
194
       print(str(tables[table_num -1][1]))
195
       print("Summary of bill before discounts:")
196
       print(str(tables[table_num -1][2:-1]))
       print("Discount percentage applied to this bill = {} ".format
197
         (discount))
198
199
```

```
...er\source\repos\Task2_Code\Task2_Code\Task2_Code.py
```