

## Chapter 6 Pete's Pizza Palace

Time required: 90 minutes

- Comment each line of code as shown in the tutorials and other code examples.
- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.

---

### Pseudocode

1. Write pseudocode for the exercise
2. Save it in a document
3. Submit with the assignment

---

### utils.py

We created this utility program in the functions chapter. Here it is again if you don't have it.

```

1  """
2      Name: utils.py
3      Author:
4      Created:
5      Purpose: A utility module with commonly used functions
6  """
7
8
9  def get_int(prompt):
10     """
11         Get an integer from the user with try catch
12         The prompt string parameter is used to ask the user
13         for the type of input needed
14     """
15     # Declare local variable
16     num = 0
17
18     # Ask the user for an input based on the prompt string parameter
19     num = input(prompt)
20
21     # If the input is numeric, convert to int and return value
22     try:
23         return int(num)
24
25     # If the input is not numeric,
26     # Inform the user and ask for input again
27     except ValueError:
28         print(f"You entered: {num}, which is not a whole number.")
29         print(f"Let's try that again.\n")
30
31     # Call function from the beginning
32     # This is a recursive function call
33     return get_int(prompt)

```

```

36 def title(statement):
37     """
38         Takes in a string argument
39         returns a string with ascii decorations
40     """
41     # Get the length of the statement
42     text_length = len(statement)
43
44     # Create the title string
45     # Initialize the result string variable
46     result = ""
47     result = result + "+--" + "-" * text_length + "--+\n"
48     result = result + "|  " + statement + "  |\n"
49     result = result + "+--" + "-" * text_length + "--+"
50
51     # Return the concatenated title string
52     return result

```

```

55 def get_float(prompt):
56     """
57     Get a number from the user with try catch
58     The prompt string parameter is used to ask the user
59     for the type of input needed
60     """
61     # Declare local variable
62     num = 0
63
64     # Ask the user for an input based on the what parameter
65     num = input(prompt)
66
67     # If the input is numeric, convert to float and return value
68     try:
69         return float(num)
70
71     # If the input is not numeric,
72     # Inform the user and ask for input again
73     except ValueError:
74         print(f"You entered: {num}, which is not a number.")
75         print(f"Let's try that again.\n")
76
77         # Call function from the beginning
78         # This is a recursive function call
79         return get_float(prompt)
80
81
82 def main():
83     """ Place code here to test the modules """
84     print(title("Test the utils module"))
85     int_num = get_int("Please enter a whole number: ")
86     print(f"Your whole number is: {int_num}")
87     float_num = get_float("Please enter any number: ")
88     print(f"Your number is: {float_num}")
89
90
91 # If a standalone program, call the main function
92 # Else, use as a module
93 if __name__ == "__main__":
94     main()

```

---

## Requirements

Save the program as: **pizza\_palace.py**

Pete would like you to create an online text-based pizza ordering system.

1. Use a main function.
2. From **utils.py**, use the **title()** and **get\_int()** functions.
3. Create 3 tuples as CONSTANTS.
  - a. **PIZZA\_TYPE**: 5 pizzas of your choice. (string)
  - b. **SIZE**: 4 sizes of your choice. (string)

- c. **PRICE:** 4 prices of your choice. (int)
- 4. Each menu choice will have a number as shown in the example run. Use this number to get the index of the item in the corresponding list.  
NOTE: Remember that a tuple index starts a 0.
  - a. Type of pizza
  - b. Size of pizza
- 5. Create the following functions:
  - a. **get\_pizza\_type()**
    - a. Use a for loop to display the information in the pizza type tuple
    - b. Use **utils.get\_int()** to get input from the user
    - c. Return the index of the pizza type choice
  - b. **get\_pizza\_size()**
    - a. Display pizza sizes
    - b. User chooses a pizza size
    - c. Return the index of the pizza size choice
  - c. **display\_purchase()**
    - a. Pass in the pizza type and pizza size
    - b. Lookup the cost of the pizza in the price tuple
    - c. Calculate the cost of the pizza
    - d. Get user contact information
    - e. Display the delivery information

```
+-----+
| Welcome to Pete's Pizza Palace! |
+-----+

Welcome to our online text based ordering system.

Please choose a pizza:
#1 Supreme
#2 Cheese
#3 Three Meat
#4 Veggie
#5 Bar B Que
Which pizza would you like to order? (1-5) 1
You ordered a #1 Supreme Pizza.
Please choose a size:
#1 Small $5
#2 Medium $7
#3 Large $10
#4 Family $15
What size would you like: 2
You ordered a #2 Medium $7 #1 Supreme Pizza.
Your total is: $7
Please provide us with your name, address and phone number.
What is your name: Bill
What is your street address: 200 High Place
What is your city: Scottsbluff
What is your phone number: 308.245.1234

Thank you for your order Bill.
We will deliver your order to this address ASAP

200 High Place
Scottsbluff

We will contact you at 308.245.1234 if there are any problems.
Thank you for using Pete's Pizza Palace text based ordering system.
```

---

## Assignment Submission

1. Attach the pseudocode.
2. Attach the program files.
3. Attach screenshots showing the successful operation of the program.
4. Submit in Blackboard.