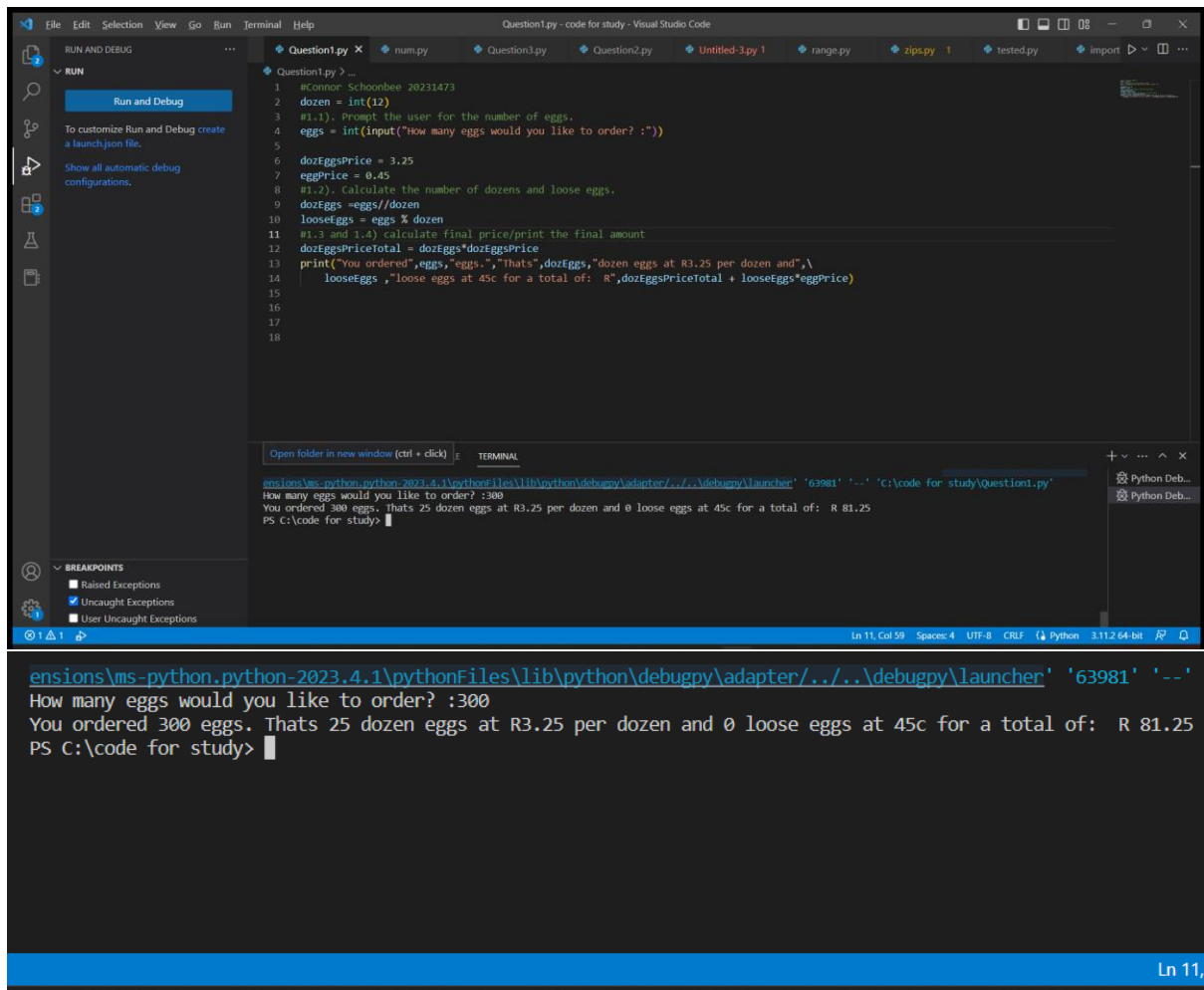


%

No table of contents entries found.

Question1



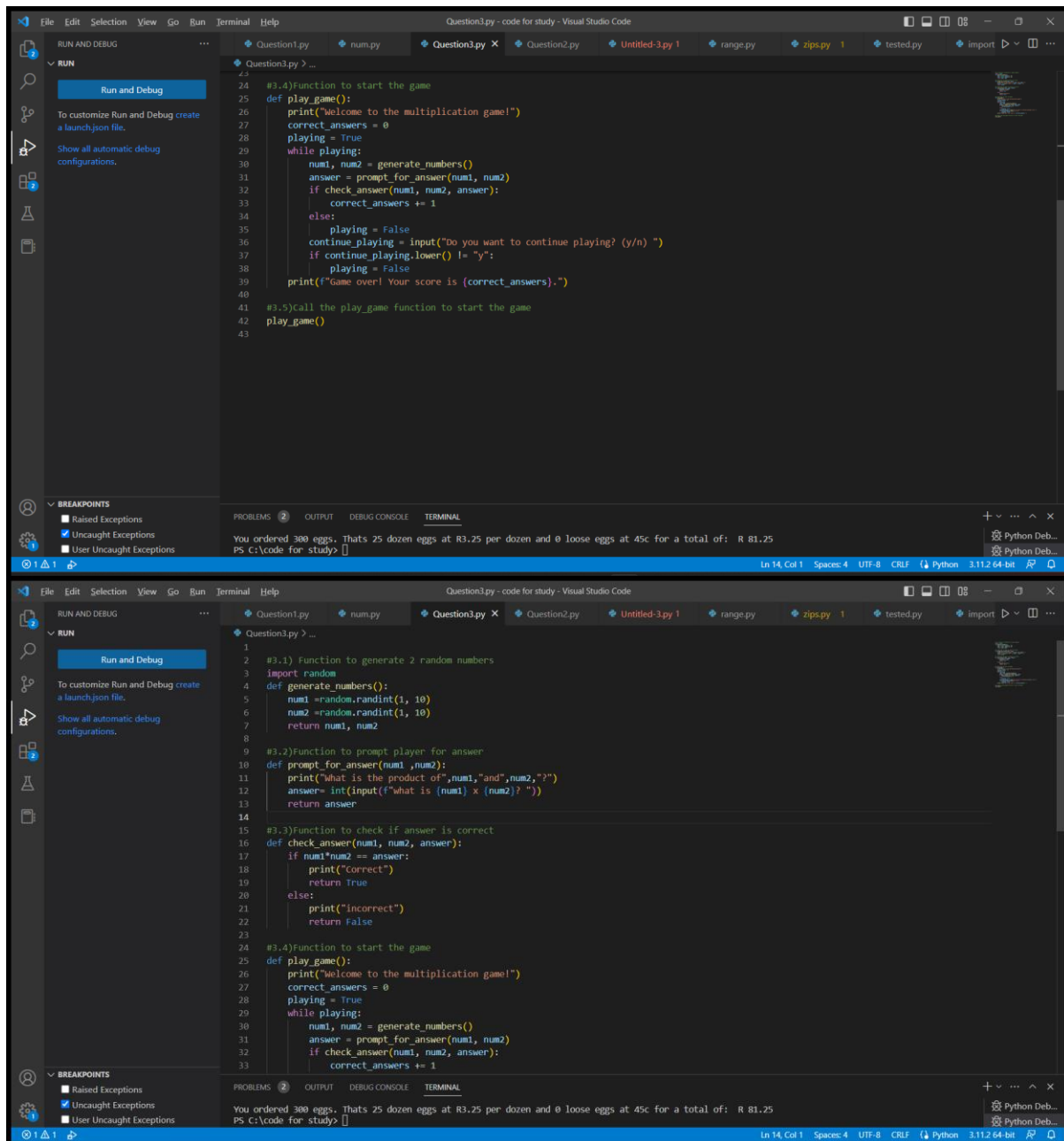
The screenshot displays the Visual Studio Code interface with a Python file named 'Question1.py' open. The code calculates the total price for a given number of eggs, considering dozens and loose eggs. The terminal shows the execution of the script, where the user inputs 300 eggs, resulting in 25 dozens and 0 loose eggs, with a total price of R 81.25.

```
1 #Connor Schoonbee 20231473
2 dozen = int(12)
3 #1.1). Prompt the user for the number of eggs.
4 eggs = int(input("How many eggs would you like to order? :"))
5
6 dozEggsPrice = 3.25
7 eggPrice = 0.45
8 #1.2). Calculate the number of dozens and loose eggs.
9 dozEggs = eggs//dozen
10 looseEggs = eggs % dozen
11 #1.3 and 1.4) calculate final price/print the final amount
12 dozEggsPriceTotal = dozEggs*dozEggsPrice
13 print("You ordered",eggs,"eggs.", "Thats",dozEggs,"dozen eggs at R3.25 per dozen and",\
14       looseEggs,"loose eggs at 45c for a total of: R",dozEggsPriceTotal + looseEggs*eggPrice)
15
16
17
18
```

Terminal Output:

```
ensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '63981' '--'
How many eggs would you like to order? :300
You ordered 300 eggs. Thats 25 dozen eggs at R3.25 per dozen and 0 loose eggs at 45c for a total of: R 81.25
PS C:\code for study>
```

Question3



```

File Edit Selection View Go Run Terminal Help
Question3.py - code for study - Visual Studio Code
Question3.py num.py Question3.py X Question2.py Untitled-3.py 1 range.py zips.py 1 tested.py import
RUN AND DEBUG
RUN
To customize Run and Debug create a launch.json file.
Show all automatic debug configurations.
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
You ordered 300 eggs. That's 25 dozen eggs at R3.25 per dozen and 0 loose eggs at 45c for a total of: R 81.25
PS C:\code for study> []
Ln 14, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.2 64-bit
#3.4)Function to start the game
def play_game():
    print("Welcome to the multiplication game!")
    correct_answers = 0
    playing = True
    while playing:
        num1, num2 = generate_numbers()
        answer = prompt_for_answer(num1, num2)
        if check_answer(num1, num2, answer):
            correct_answers += 1
        else:
            playing = False
            continue_playing = input("Do you want to continue playing? (y/n) ")
            if continue_playing.lower() != "y":
                playing = False
    print(f"Game over! Your score is {correct_answers}.")
#3.5)Call the play_game function to start the game
play_game()

```

```

File Edit Selection View Go Run Terminal Help
Question3.py - code for study - Visual Studio Code
Question3.py num.py Question3.py X Question2.py Untitled-3.py 1 range.py zips.py 1 tested.py import
RUN AND DEBUG
RUN
To customize Run and Debug create a launch.json file.
Show all automatic debug configurations.
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
You ordered 300 eggs. That's 25 dozen eggs at R3.25 per dozen and 0 loose eggs at 45c for a total of: R 81.25
PS C:\code for study> []
Ln 14, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.2 64-bit
#3.1) Function to generate 2 random numbers
import random
def generate_numbers():
    num1 = random.randint(1, 10)
    num2 = random.randint(1, 10)
    return num1, num2
#3.2)Function to prompt player for answer
def prompt_for_answer(num1, num2):
    print("What is the product of", num1, "and", num2, "?")
    answer = int(input(f"what is {num1} x {num2}? "))
    return answer
#3.3)Function to check if answer is correct
def check_answer(num1, num2, answer):
    if num1*num2 == answer:
        print("Correct")
        return True
    else:
        print("Incorrect")
        return False
#3.4)Function to start the game
def play_game():
    print("Welcome to the multiplication game!")
    correct_answers = 0
    playing = True
    while playing:
        num1, num2 = generate_numbers()
        answer = prompt_for_answer(num1, num2)
        if check_answer(num1, num2, answer):
            correct_answers += 1

```

The screenshot shows the Visual Studio Code interface with a Python file named `Question3.py` open. The code defines a `play_game` function that prompts the user for two numbers and checks if their product matches a given answer. It also includes a `check_answer` function and a `generate_numbers` function. The terminal output shows the program running successfully, displaying a welcome message and asking for two numbers (10 and 5). The user provides the correct answer (50), and the program continues to ask for another number (5). The user provides the correct answer (25), and the program ends with a score of 2.

```
13     return answer
14
15 #3.3)Function to check if answer is correct
16 def check_answer(num1, num2, answer):
17     if num1*num2 == answer:
18         print("Correct")
19         return True
20     else:
21         print("Incorrect")
22         return False
23
24 #3.4)Function to start the game
25 def play_game():
26     print("Welcome to the multiplication game!")
27     correct_answers = 0
28     playing = True
29     while playing:
30         num1, num2 = generate_numbers()
31         answer = prompt_for_answer(num1, num2)
32         if check_answer(num1, num2, answer):
33             correct_answers += 1
34         else:
35             break
36     print("Game over! Your score is:", correct_answers)
```

FileNotFoundError: [Errno 2] No such file or directory: 'C:\\code for study\\tasks'

PS C:\code for study> cd 'C:\code for study'; & 'C:\Users\conno\AppData\Local\Programs\Python\Python311\python.exe' 'C:\Users\conno\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '56765' '-.' 'C:\code for study\Question3.py'

Welcome to the multiplication game!

What is the product of 10 and 5 ?

what is 10 x 5? 50

Correct

Do you want to continue playing? (y/n) y

What is the product of 5 and 5 ?

what is 5 x 5? 25

Correct

Do you want to continue playing? (y/n) n

Game over! Your score is 2.

PS C:\code for study>

FileNotFoundError: [Errno 2] No such file or
PS C:\code for study> c:; cd 'c:\code for st
ensions\ms-python.python-2023.4.1\pythonFiles
Welcome to the multiplication game!
What is the product of 10 and 5 ?
what is 10 x 5? 50
Correct
Do you want to continue playing? (y/n) y
What is the product of 5 and 5 ?
what is 5 x 5? 25
Correct
Do you want to continue playing? (y/n) n
Game over! Your score is 2.
PS C:\code for study>

Completed Declaration of Authenticity

I Connor schoonbee _____ hereby
(FULL NAME)

declare that the contents of this assignment is entirely my own work except for the following documents: (List the documents and page numbers of work in this portfolio that were generated in a group)

Activity	Date

Signature: Date: _____