<table>
<tr><td colspan="6">Faculty of Information Technology</td></tr>
<tr><td rowspan="5">I declare that I am familiar with, and will abide to the Examination rules of CTU

Connor
Signature</td><td colspan="5">0 1 1 0 1 0 0 1
SUBJECT NAME: SD Foundation
SUBJECT CODE: PRP411</td></tr>
<tr><td colspan="3">Formative Assessment 1
Duration:
Date:28/03/2023
Total Marks: 63
Total pages:</td><td colspan="2">Examiner:
Moderator:</td></tr>
<tr><td colspan="5">Student number</td></tr>
<tr><td>2</td><td>0</td><td>2</td><td>3</td><td>1</td><td>4</td><td>7</td><td>3</td></tr>
<tr><td colspan="3">Surname: schoonbee</td><td colspan="2">Initials:
C.S</td><td>/</td><td>%</td></tr>
</table>

Contents

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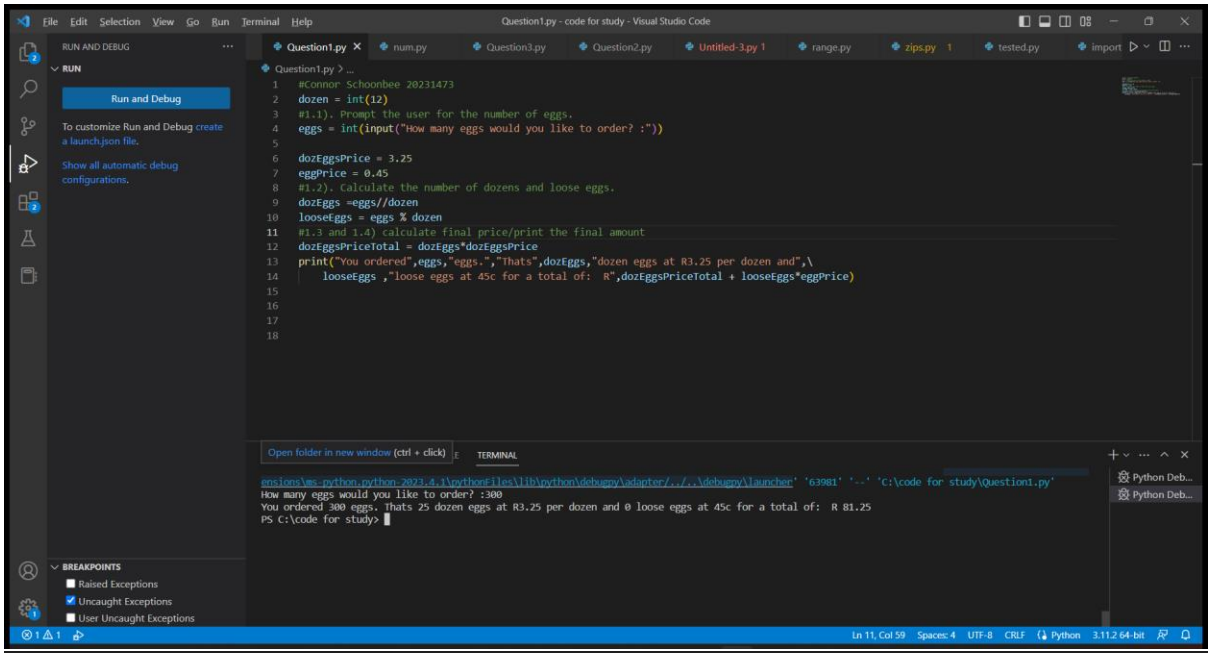
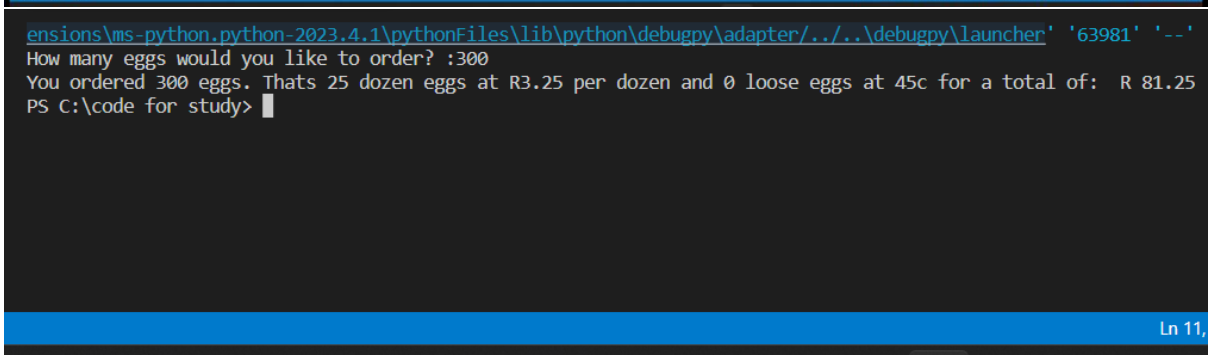
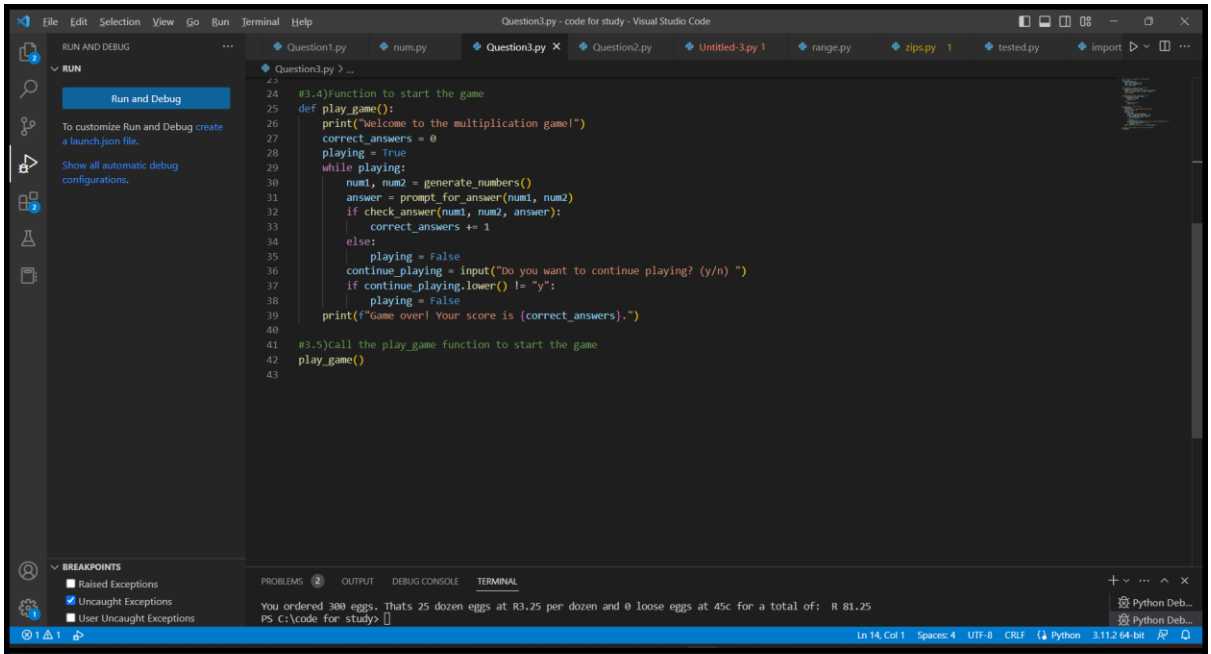
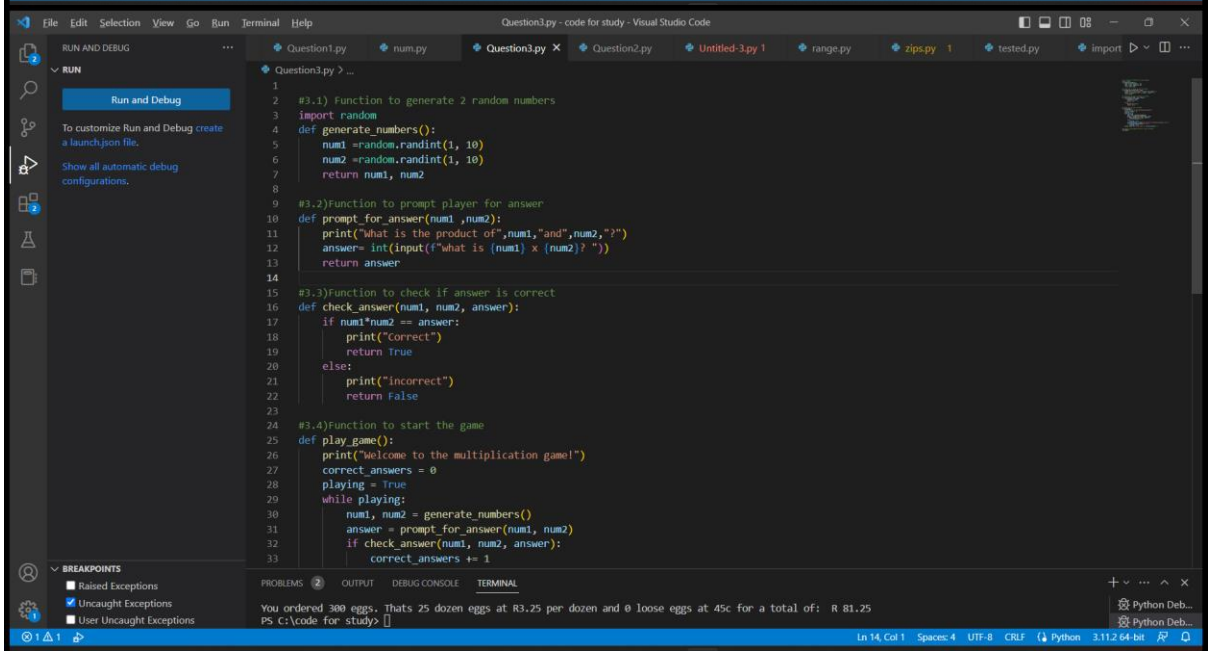
Question1





Question3


File Edit Selection View Go Run Terminal Help
Question3.py - code for study - Visual Studio Code
RUN AND DEBUG
RUN
Run and Debug
To customize Run and Debug create a launch.json file.
Show all automatic debug configurations.
Question1.py
num.py
Question3.py
Question2.py
Untitled-3.py 1
range.py
zips.py 1
tested.py
import
Question3.py > ...
#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()
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
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>
Python Deb...
Python Deb...
Ln 14, Col 1
Spaces: 4
UTF-8
CRLF
Python
3.11.2 64-bit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zips.py 1
tested.py
import
Question3.py > ...
#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:
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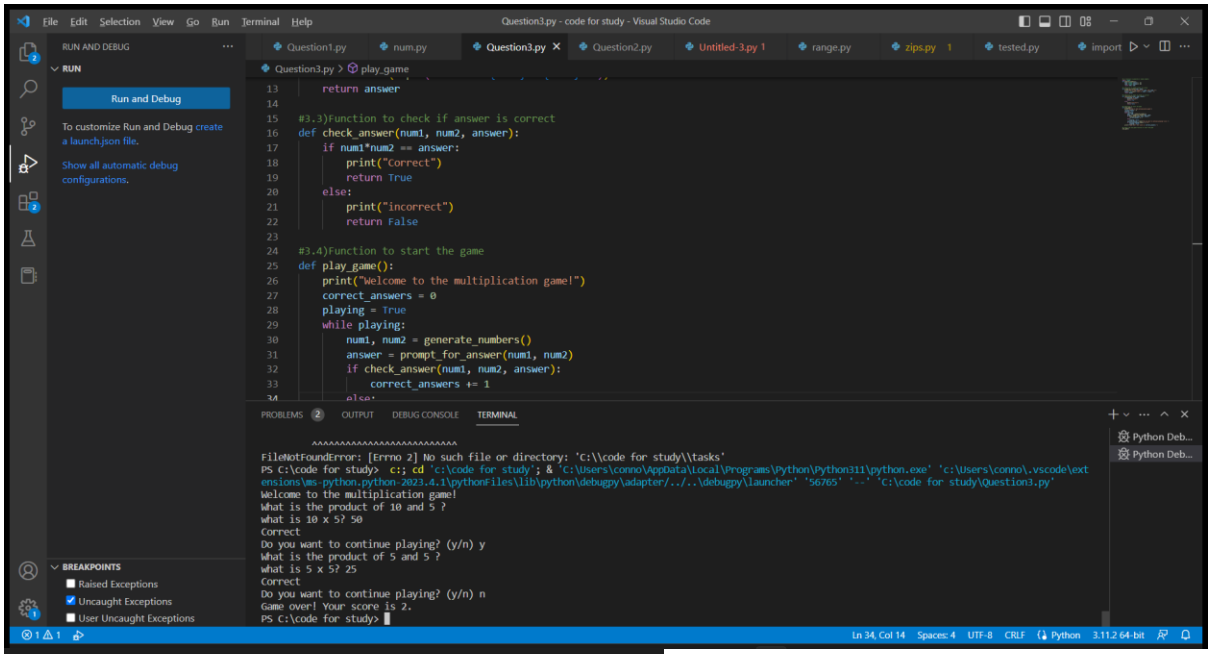
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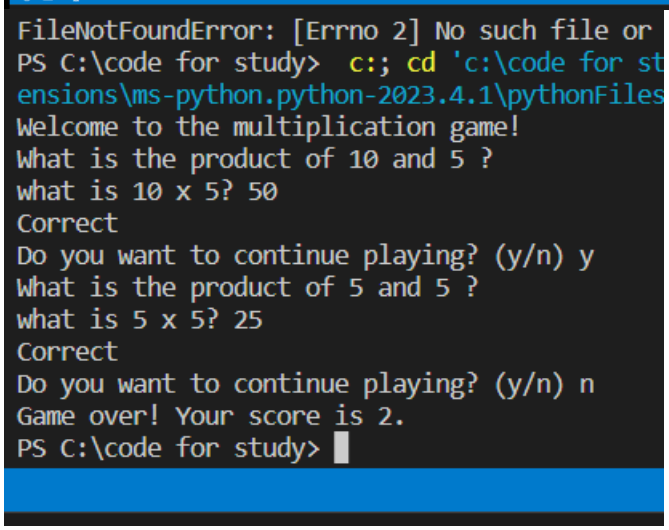
PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
^^^^^^^^^^^^^^^^^^^^^^^^^^
FileNotFoundError: [Errno 2] No such file or directory: 'C:\\code for study\\tasks'
PS C:\code for study> c:; cd 'c:\code for study'; & 'C:\Users\conno\AppData\Local\Programs\Python\Python311\python.exe' 'c:\Users\conno\.vscode\extensions\ms-python.python-2023.4.1\pythonFiles\lib\python\debugpy\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>
Python Deb...
Python Deb...
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Exceptions
Ln 34, Col 14
Spaces: 4
UTF-8
CRLF
Python
3.11.2 64-bit


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: _____