This assignment has three parts.

Part One: Write a program to simulate a chatbot conversation. Use the following guidelines to write your program:

1. Decide on an interactive conversation someone could have with a computer.
2. Your program should include at least three interactive prompts.
3. Input from the user should be assigned to variables and used throughout the conversation.
4. At least once, use the indexing or slicing technique.
5. Use concatenation to join string literals and string values.
6. Write the pseudocode for this program. **Be sure to include any input and output needed.**

Insert your pseudocode here:

PSUDOCODE

START

❖ **Initialize animals with a list of animals with the letter z**

❖ **Define main**

➢ **Initialize globals**

➢ **Print "Hi im your new virtural friend! You can call me Juice."**

➢ **Set name to the result of input "What is your name?: "**

➢ **If length or name less than or equal to 1**

▪ **Print "Thats Cool"**

➢ **Else**

▪ **Print "Thats Cool, The second letter of your name is " + name[2]**

➢ **While true**

▪ **Set animal to the input of "Name an animal that starts with the**

letter 'z': "

▪ **If animal starts with z and is in animals**

• **Print "Good Job! " + animal + " does start with the letter 'z'"**

• **break**

▪ **Else**

• **"Not quite, Try again!"**

➢ **Print "It was nice chatting with you " +name+". Have a good day!"**

❖ **Call main**

END

Part Two: Code the program. Use the following guidelines to code your program.

1. Code the program using Python IDLE.

2. Using comments, type a heading that includes your name, today's date, and a short description of the program.

3. Use meaningful names for all variables.

4. Follow the Python style conventions regarding indentation and the use of white space in your program.

Example of expected output: The output for your program should resemble the following screen shot. Your specific results will vary depending on the choices you make about the conversation and the input provided.

Output:

```
Hi, I am Wea!
Hi, Ada!
The second letter of your name is d.
I challenge you to name an animal that starts with the letter d.
Oh! I saw a duck in my backyard yesterday!
Ada, you sound silly quacking like that!
It was nice chatting with you Ada. Bye!
```

Insert a copy of your code from the IDLE here:

```python
# Jonathan Meyer

# 9/25/24

# a program to introduce the user to the program

#initialize animals

animals = ["zebra","zebu","zonkey","zebra shark","zebra
spider","zorse","zokor","zorro","zorilla","zuchon","zebra moray eel",
"zapata wren","zapata","zebra moray", "zanzaibar","zebra duiker"]

def main():

    global animals

    print("Hi im your new virtural friend! You can call me Juice.")

    name = input("What is your name?: ")

    if (len(name)<=1):

        print("Thats Cool")

    else:

        print("Thats Cool, The second letter of your name is " + name[2])

    while True:

        animal = input("Name an animal that starts with the letter 'z':
").strip().lower()


        if (animal[0]=="z" and animal in animals):

            print("Good Job! " + animal + " does start with the letter
'z'")

            break

        else:

            print("Not quite, Try again!")
```

```
    print("It was nice chatting with you " +name+". Have a good day!")

main()
```

Part Three: Complete the Post Mortem Review (PMR). Write thoughtful two to three sentence responses to all the questions in the PMR chart.

Review Question	Response
What was the purpose of your program?	Introduce the program to the user. While asking their name and an animal starting with the letter z
How could your program be useful in the real world?	It could introduce people to other people via a questionnaire per person
What is a problem you ran into, and how did you fix it?	I didnt run into any issues while running/writing/compiling this program
Describe one thing you would do differently the next time you write a program.	Make the program a little more advanced. Use less lines.