Name	04.04 Lists
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This assignment has three parts.

Part One: Programming

Write a program to ask the user for their favorite item in a given category. Then provide feedback if their item is on your list. Use the following guidelines to write your program.

- 1. Pick a category and make a list of your five favorite things. Suggested categories include your favorite: actors, books, cars, or something else of your choosing.
- 2. Ask the user what their favorites are in your selected category.
- 3. By creating a list, a loop, and if statements, print a message that lets the user know if their favorites matches the ones on your list.
- 4. Neatly print your entire list to the screen. Be sure to number each item.
- 5. Write the pseudocode for this program. Be sure to include any needed input, calculations, and output.

Insert your pseudocode here:

Define main

- Set the category to "Favorite Books"
- ➤ Initialize the favorite books list
- Set use_favorite to input "What is your favorite book?"
- Print "Category: " + category
- Print "Here are my favorite books:"
- > For index and book of enumerate favorite books and start = 1
 - Print index + ". " + book
- ➤ If user_favorite in favorite_books
 - Print "Great choice! "+user_favorite+" is also on my list."
 - Print "Nice choice, but ""+user_favorite+"" is not on my list."

Part Two: Code the program

Use the following guidelines to code your program.

- 1. To code the program, use the Python IDLE.
- 2. Using comments, type a heading that includes your name, today's date, and a short description of the program.
- 3. Follow the Python style conventions regarding indentation and the use of white space to improve readability.
- 4. Use meaningful variable names.

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 and the input provided.

```
Output:

What is your favorite
Star Wars character?
Cool! We both like Chewbacca!

Here are my top 5 favorites:
1 Chewbacca
2 Yoda
3 Rey
4 R2-D2
5 Obi Wan Kenobi
```

Insert a copy of your code from IDLE here:

```
#Jonathan Meyer
#10/30/24
# A program to ask the user for their favorite item in a given category
def main():
    # Step 1: Define the category and list of favorite books
    category = "Favorite Books"
    favorite_books = ["1984", "To Kill a Mockingbird", "The Great Gatsby",
"Pride and Prejudice", "Moby-Dick"]
# Step 2: Ask for user input
```

```
user favorite = input("What is your favorite book? ")
   # Step 3: Output the list of favorite books
   print("Category: "+category)
   print("Here are my favorite books:")
   for index, book in enumerate(favorite_books, start=1):
       print(index+". "+ book)
   # Step 4: Check if the user's favorite is on the list
   if user favorite in favorite books:
       print(f"Great choice! "+user favorite+" is also on my list.")
   else:
       print(f"Nice choice, but '"+user favorite+"' is not on my list.")
main()
```

Part Three: Post Mortem Review

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

F	Review Question	Response

What was the purpose of your program?	A program to ask the user for their favorite item in a given category.
How could your program be useful in the real	It could be used to pick out movies/books/shows
world?	based off of other movies/books/shows.
What is a problem you ran into, and how did you fix it?	Didnt run into any issues.
Describe one thing you would do differently the next time you write a program.	Use a database of favorites to expand the list.