

PYTHON GENERAL EXERCISE

Python Overview:

1. What are the fundamental components of a Python program, and how does Python execute code?

Python Variables:

2. Explain the differences between mutable and immutable data types in Python and provide examples of each.

Python Operations:

3. Discuss the importance of operator precedence in Python and how it impacts the evaluation of expressions.

Python Collections:

4. Compare and contrast the usage of lists, tuples, sets, and dictionaries in Python, highlighting their key characteristics and when to use each.

Problem: Pizza Party

5. You're organizing a pizza party and want to ensure there's enough pizza for everyone attending. Each pizza has 8 slices. Write a Python script that calculates the number of pizzas needed based on the number of guests and slices per person.

Consider the following inputs:

- Number of guests attending the party.
- Slices each guest should have (assume each guest will have the same number of slices).

Your script should:

- Prompt the user for the number of guests attending.
- Prompt for the number of slices each guest should have.
- Calculate the total number of slices needed.
- Calculate the total number of pizzas required (round up to the nearest whole pizza). For instance, if 10 guests are attending and each should have 3 slices, your program should output the number of pizzas needed to fulfill the requirement.



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Want to Become a Python Expert?

If you're serious about learning Python and getting ready for Data Analysis or Web Development roles using Python, I highly encourage you to enroll in my Complete Python Course. Don't waste your time following disconnected, outdated tutorials.

My Complete Python Course has everything you need in one place.

- About 10 hours of HD video
- Unlimited access - watch it as many times as you want
- Self-paced learning - take your time if you prefer
- Watch it online or download and watch it offline
- One-on-one training with me 2-4 times a week

Sincerely,



Juma Shafara

Data Scientist, Instructor



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