

Python Fundamentals Course: Session 3.2 Take Home Quiz

Highlight the correct answer choice for each question

Questions

1. What will nested 'for i in range(2): for j in range(2):' print?
 - a. 0 0, 0 1, 1 0, 1 1
 - b. 0 1, 1 0
 - c. 0 0, 1 1
 - d. 2 2
2. What does zip([1,2], ['a','b']) produce?
 - a. [(1,'a'), (2,'b')]
 - b. [1,'a',2,'b']
 - c. [1,2,'a','b']
 - d. Error
3. When does a while loop stop?
 - a. After fixed iterations
 - b. When condition becomes False
 - c. Never
 - d. When break called
4. What does break do?
 - a. Pauses loop
 - b. Exits loop entirely
 - c. Skips to next iteration
 - d. Restarts loop
5. What does continue do?
 - a. Exits loop
 - b. Skips to next iteration
 - c. Pauses execution
 - d. Restarts from beginning
6. What will: x = 5; while x > 0: x -= 1; print(x) output last?
 - a. 0
 - b. 1
 - c. -1
 - d. 5
7. How many times: matrix = [[1,2],[3,4]]; count = 0; for row in matrix: for val in row:
count += 1
 - a. 2
 - b. 4
 - c. 6
 - d. 8
8. What is batch processing in ML?
 - a. Processing all data at once
 - b. Processing data in small groups
 - c. Processing one item
 - d. No processing

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9. What command merges branch into current?
 - a. git merge branch-name
 - b. git combine branch-name
 - c. git add branch-name
 - d. git join branch-name
10. Good use case for while loops in ML?
 - a. Processing fixed datasets
 - b. Training until convergence
 - c. Creating lists
 - d. Sorting data