

## Python Fundamentals Course: Session 3.1 Take Home Quiz

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Highlight the correct answer choice for each question

### Questions

1. What does `range(5)` produce?
  - a. `[1, 2, 3, 4, 5]`
  - b. `[0, 1, 2, 3, 4]`
  - c. `[0, 1, 2, 3, 4, 5]`
  - d. Error
2. How many times will `'for i in range(3, 8):'` run?
  - a. 3
  - b. 4
  - c. 5
  - d. 6
3. What does `enumerate(['a', 'b', 'c'])` provide?
  - a. Just values
  - b. Just indices
  - c. Both index and value pairs
  - d. The length
4. What will `'for i in range(2, 10, 3): print(i)'` output?
  - a. 2 5 8
  - b. 2 5 8 11
  - c. 2 3 4 5 6 7 8 9
  - d. 3 6 9
5. What is: `total = 0; for i in range(1, 4): total += i; print(total)`
  - a. 4
  - b. 6
  - c. 10
  - d. 0
6. How do you iterate with both index and value?
  - a. `for i in list`
  - b. `for i, val in enumerate(list)`
  - c. `for i, val in list`
  - d. `for val in enumerate(list)`
7. What does `git branch` do?
  - a. Creates branch
  - b. Lists branches
  - c. Switches branches
  - d. Lists and can create
8. What will: `result = []; for i in range(3): result.append(i*2);` produce?
  - a. `[0, 2, 4]`
  - b. `[0, 1, 2]`
  - c. `[2, 4, 6]`
  - d. `[0, 2, 4, 6]`

9. How do you switch to branch 'feature'?
  - a. git switch feature
  - b. git checkout feature
  - c. git branch feature
  - d. Both A and B
10. What are **for loops** used for in ML training?
  - a. Nothing
  - b. Iterate through epochs
  - c. Format strings
  - d. Define functions