

# Python Test Questions

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## Multiple Choice Questions (MCQs)

1. What is the correct file extension for Python files?
  - A. .pyth
  - B. .pt
  - C. .py
  - D. .pyt
2. Which of the following is a valid variable name in Python?
  - A. 1variable
  - B. my-variable
  - C. my\_variable
  - D. my variable
3. What is the output of: `print(3 + 2 * 2)`?
  - A. 10
  - B. 7
  - C. 9
  - D. 6
4. Which keyword is used to define a function in Python?
  - A. func
  - B. define
  - C. def
  - D. function
5. Which of the following data types is immutable in Python?
  - A. List
  - B. Dictionary
  - C. Set
  - D. Tuple

## True or False

6. Python is a case-sensitive language.
7. Python supports object-oriented programming.
8. Lists in Python are immutable.
9. Python code must be compiled before it can be run.
10. You can use single or double quotes for strings in Python.

### □ Short Answer Questions

11. What is the purpose of the len() function in Python?
12. How do you write a comment in Python?
13. What will print(type("Hello")) return?
14. Explain the difference between = and == in Python.
15. How do you create a list in Python?
16. Differentiate between counter controlled loops and sentinel controlled loop, with example.
17. Write a function that accepts two positive numbers n and m where  $m \leq n$ , and returns numbers between 1 and n that are divisible by m.
18. Write a function that displays "Hello name", for any given name passed to it.
19. Write a function is\_leap\_year which takes the year as its argument and checks whether the year is a leap year or not and then displays an appropriate message on screen.