

# Introduction to Python Programming Concepts

Computer Science · Answer Key · 15 Questions

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## 1. What is the primary purpose of the `input()` function in Python?

- A) To display output on the screen
- B) To convert data types
- C) To get input from the user**
- D) To define a variable

## 2. Which of the following is a valid way to declare a variable in Python?

- A) `var my_variable = 10`
- B) `my_variable = 10`**
- C) `int my_variable = 10`
- D) `declare my_variable = 10`

## 3. What does IDLE stand for?

- A) Integrated Development Learning Environment
- B) Interactive Data Language Environment
- C) Integrated Development Environment**
- D) Input Data Learning Engine

## 4. In Python, is variable naming case-sensitive?

- A) No, 'myVariable' is the same as 'myvariable'
- B) Yes, 'myVariable' is different from 'myvariable'**
- C) Only for keywords
- D) It depends on the operating system

## 5. What is the purpose of the `print()` function?

- A) To get user input
- B) To perform calculations
- C) To display output**
- D) To save a file

## 6. What is a 'string' in programming?

- A) A number
- B) A sequence of characters**
- C) A true/false value
- D) A command to execute

7. Which mode allows you to execute Python commands one by one and see immediate results?

- A) Script mode
- B) Interactive mode**
- C) Batch mode
- D) Compile mode

8. What is the result of the following calculation:  $2 * (5 + 3)$ ?

- A) 13
- B) 16**
- C) 11
- D) 30

9. To convert a string input from the user into an integer, what function would you use?

- A) str()
- B) float()
- C) int()**
- D) input()

10. What is the formula to convert Celsius to Fahrenheit?

- A)  $(C * 9/5) + 32$**
- B)  $(C + 32) * 9/5$
- C)  $(C - 32) * 5/9$
- D)  $(C * 5/9) - 32$

11. How do you save a Python program?

- A) By pressing Ctrl+S in the editor**
- B) By typing 'save' at the prompt
- C) By closing the IDLE window
- D) By using the 'run' command

12. What does the `exit()` command do?

- A) Starts a new program
- B) Saves the current file
- C) Closes the Python shell or script**
- D) Prints a message

**13. What is the purpose of a 'variable' in programming?**

- A) To store data that can change**
- B) To define a function
- C) To control the flow of a program
- D) To display text

**14. What is the basic structure of the IDLE interface?**

- A) A single text editor window
- B) A command prompt and a shell
- C) A graphical user interface with buttons**
- D) A database connection tool

**15. Which key combination is often used to run a script in IDLE?**

- A) Ctrl+C
- B) Ctrl+V
- C) F5**
- D) Alt+F4