# Python – Assessment Bank

Generated on: 2025-06-18 13:26:55

\*\*Instructions:\*\* Choose the best answer for each multiple-choice question.  
  
1. \*\*What is a variable in Python?\*\*  
 a) A fixed value that cannot be changed.  
 b) A named storage location for data.  
 c) A type of loop.  
 d) A function that performs a specific task.  
  
2. \*\*Which of the following is a valid Python variable name?\*\*  
 a) 1st\_variable  
 b) my-variable  
 c) \_my\_variable  
 d) my variable  
  
3. \*\*What happens if you try to use a variable that hasn't been assigned a value?\*\*  
 a) The program continues without error.  
 b) The program prints a warning message.  
 c) The program terminates with a `NameError`.  
 d) The program assigns a default value of 0.  
  
4. \*\*In Python, what does the equal sign (=) operator do when used with variables?\*\*  
 a) Checks for equality.  
 b) Assigns a value to a variable.  
 c) Performs addition.  
 d) Performs subtraction.  
  
5. \*\*Which data type is assigned to a variable declared as `x = 10`?\*\*  
 a) String  
 b) Float  
 c) Boolean  
 d) Integer  
  
6. \*\*What is the purpose of a variable's name?\*\*  
 a) To make the code look more complicated.  
 b) To identify and access the data stored in the variable.  
 c) It has no specific purpose.  
 d) To specify the data type of the variable.  
  
  
7. \*\*Which of the following is NOT a valid way to declare a variable in Python?\*\*  
 a) `my\_var = 5`  
 b) `MyVar = "Hello"`  
 c) `my-var = 10.5`  
 d) `\_count = 0`  
  
8. \*\*Can a variable's value be changed after it's been assigned?\*\*  
 a) No, variables are immutable in Python.  
 b) Yes, variables are mutable in Python.  
 c) Only if the data type remains the same.  
 d) Only if it's a global variable.  
  
  
9. \*\*What keyword is used to indicate that a variable should have global scope?\*\*  
 a) `local`  
 b) `global`  
 c) `variable`  
 d) `scope`  
  
  
10. \*\*Which statement best describes the process of assigning a value to a variable?\*\*  
 a) It involves copying the value to a new memory location.  
 b) It is a direct alteration of an existing memory address.  
 c) It creates a variable name and links it to a location in memory containing the value.  
 d) It depends on whether the variable is local or global.

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