Python Programming Quiz - Lecture 1

Course: Introduction to Python Programming

Instructions

- Answer all questions in the space provided.

- For multiple-choice questions, circle the correct option.

- For programming questions, write clear and correct Python code.

- Time: 30 minutes. Total Marks: 30 (10 MCQs: 1 mark each, 5 Programs: 4 marks each).

1 Multiple-Choice Questions (10 marks)

1.1 Question 1: Introduction to Python

Who developed the Python programming language?
(a) Dennis Ritchie   (b) Guido van Rossum   (c) James Gosling   (d) Bjarne Stroustrup

1.2 Question 2: Introduction to Python

Which feature of Python makes it platform-independent?
(a) Simple & Easy   (b) Free & Open Source   (c) Portable   (d) High-Level Language

1.3 Question 3: Python Character Set

Which of the following is NOT part of Pythons character set?
(a) Letters (A-Z, a-z)   (b) Digits (0-9)   (c) Reserved Keywords   (d) Special Symbols $(+, -, *, /)$

1.4 Question 4: Variables and Identifiers

Which of the following is a valid Python identifier?
(a) 1variable   (b) my$_v$ariable (c)@variable (d)variable#

1.5 Question 5: Variables and Identifiers

Which symbol is NOT allowed in a Python identifier?
(a) Underscore $()$ $(b) DollarSign(\$)$ $(c) Letters(a-z)$ $(d) Digits(0-9)$

1.6 Question 6: Data Types and Keywords

Which of the following is NOT a valid Python data type?
(a) Float   (b) Boolean   (c) Integer   (d) Double

1.7 Question 7: Comments

How is a single-line comment written in Python?
(a) // Comment   (b) # Comment   (c) /* Comment */   (d) <!– Comment –>

1.8 Question 8: Operators

Which operator performs division in Python?
(a) *   (b) /   (c) %   (d) //

1.9 Question 9: Type Conversion and Type Casting

What is the output of the following code?
```
a, b = 4, "6"
c = int(b)
print(a + c)
```
(a) 10   (b) 46   (c) "10"   (d) Error

1.10 Question 10: Input in Python

What is the default data type of the value returned by the `input()` function?
(a) Integer   (b) Float   (c) String   (d) Boolean

2 Programming Questions (20 marks)

2.1 Question 11: Type Conversion

Write a Python program that converts a string `"12.5"` to a float, adds it to an integer 8, and prints the result.

2.2 Question 12: Input and String Concatenation

Write a Python program that accepts a string input from the user and concatenates it with `"Hello, "` to print a greeting message.

2.3 Question 13: Basic Programming

Write a Python program to input two integers and print their sum.

2.4 Question 14: Basic Programming with String Concatenation

Write a Python program to input the side of a square, calculate its area, and print the result with a concatenated string in the format `"Area: <area>"`.

2.5 Question 15: Basic Programming

Write a Python program to input two integers, `a` and `b`, and print `True` if `a` is greater than or equal to `b`, otherwise print `False`.