



Department of Artificial Intelligence and Data Science

Python Made Simple – A Journey for Beginners

Quiz Day 1 - 23.09.2024

1. Introduction to Python

1. What is Python?
 - a) A programming language
 - b) A type of snake
 - c) An operating system
 - d) A text editor
 2. Which of the following statements about Python is true?
 - a) Python is a compiled language
 - b) Python is case-sensitive
 - c) Python does not support object-oriented programming
 - d) Python code must always be written in curly braces
 3. What is the correct way to output "Hello, World!" in Python?
 - a) echo "Hello, World!"
 - b) print("Hello, World!")
 - c) printf("Hello, World!")
 - d) document.write("Hello, World!")
 4. Which extension is used for Python files?
 - a) .py
 - b) .java
 - c) .cpp
 - d) .txt
 5. What is pip in Python?
 - a) Installation guiding tool
 - b) A document that provides guidelines and best practices for writing Python code
 - c) A library for data analysis
 - d) A module for string manipulation
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2. Variables, Data Types, and Operators

1. Which of the following is a correct variable declaration in Python?
 - a) int x = 5
 - b) var x = 5
 - c) x = 5
 - d) declare x = 5
2. What data type is returned by the expression $3 + 2.5$ in Python?
 - a) Integer

- b) Float
 - c) String
 - d) Boolean
 - 3. Which operator is used for exponentiation in Python?
 - a) ^
 - b) **
 - c) %
 - d) //
 - 4. Which of the following is a mutable data type in Python?
 - a) String
 - b) Tuple
 - c) List
 - d) Integer
 - 5. What will be the output of the following code?

```
a = 10
b = 20
a, b = b, a
print(a, b)
```

 - a) 10 10
 - b) 10 20
 - c) 20 10
 - d) 20 20
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3. Control Flow

1. Which of the following is used to create a conditional statement in Python?
 - a) if
 - b) for
 - c) while
 - d) switch
2. What will be the output of the following code?

```
x = 5
if x > 2:
    print("A")
elif x > 4:
    print("B")
else:
    print("C")
```

 - a) A
 - b) B
 - c) C
 - d) No output
3. Which Python keyword is used to exit a loop prematurely?
 - a) exit
 - b) stop
 - c) break

- d) return
 - 4. What is the difference between while and for loops in Python?
 - a) while is used for definite iteration; for is used for indefinite iteration.
 - b) for is used for definite iteration; while is used for indefinite iteration.
 - c) There is no difference.
 - d) for loops always run infinitely, while while loops do not.
 - 5. What will be the output of this Python code?

```
count = 0
while count < 3:
    print(count)
    count += 1
else:
    print("Done")
```

 - a) 0 1 2
 - b) 0 1 2 Done
 - c) Done 0 1 2
 - d) 0 1 Done
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4. Containers

1. Which of the following is an example of a list in Python?
 - a) {1, 2, 3}
 - b) [1, 2, 3]
 - c) (1, 2, 3)
 - d) "1, 2, 3"
2. What is the output of the following code?

```
my_list = [1, 2, 3, 4, 5]
print(my_list[2])
```

 - a) 1
 - b) 2
 - c) 3
 - d) 4
3. Which of the following operations can be performed on a set in Python?
 - a) Append elements
 - b) Add duplicate elements
 - c) Perform union and intersection
 - d) Access elements by index
4. What is the difference between a list and a tuple in Python?
 - a) Lists are immutable, tuples are mutable
 - b) Lists are mutable, tuples are immutable
 - c) Both are immutable
 - d) Both are mutable
5. What will be the output of the following code?

```
python
my_dict = {'a': 1, 'b': 2, 'c': 3}
print(my_dict.get('d', 'Not Found'))
```

- a) 3
 - b) None
 - c) 'Not Found'
 - d) KeyError
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5. Functions

1. How do you define a function in Python?
 - a) function myFunc()
 - b) def myFunc():
 - c) myFuncdef()
 - d) declare myFunc()
2. What is the output of the following code?

```
def greet(name="Guest"):
    print(f"Hello, {name}!")
greet("Alice")
greet()
```

 - a) Hello, Guest! Hello, Alice!
 - b) Hello, Alice! Hello, Guest!
 - c) Hello, Guest! Hello, Guest!
 - d) Error due to missing argument
3. What does the return statement do in a function?
 - a) Stops the function and returns a value
 - b) Skips to the next function
 - c) Ends the program
 - d) Runs the function again
4. What is a recursive function?
 - a) A function that returns multiple values
 - b) A function that calls itself
 - c) A function that takes multiple arguments
 - d) A function without arguments
5. What will be the output of the following code?

```
def add(a, b):
    return a + b
print(add(5, 7))
```

 - a) 57
 - b) 12
 - c) Error
 - d) None