

# Python Programming Quiz 2 - Week 2

Course: Introduction to Python Programming | Instructor: Sajjad Ahmad | UHP

## 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: 40 minutes. Total Marks: 30 (10 MCQs: 1 mark each, 10 Programs: 2 marks each).

## 1 Multiple-Choice Questions (10 marks)

### 1.1 Question 1: Strings

What is the result of `"Code" + "Fun"`?

- (a) Code Fun    (b) CodeFun    (c) Code+Fun    (d) Error

### 1.2 Question 2: String Indexing

Given `str = "ApnaCollege"`, what is `str[4]`?

- (a) C    (b) o    (c) l    (d) e

### 1.3 Question 3: String Slicing

For `str = "Python"`, what is `str[-4:-1]`?

- (a) tho    (b) yth    (c) hon    (d) pyt

### 1.4 Question 4: String Functions

Which method capitalizes the first character of a string?

- (a) `endsWith()`    (b) `find()`    (c) `capitalize()`    (d) `replace()`

### 1.5 Question 5: String Functions

What does `str.find("code")` return for `str = "I am a coder."`?

- (a) 7    (b) 8    (c) -1    (d) 0

### 1.6 Question 6: Conditional Statements

What grade is assigned for marks = 92 in the grading system?

- (a) A    (b) B    (c) C    (d) D

### 1.7 Question 7: Conditional Statements

Which condition checks if a number `n` is even?

- (a) `n % 2 == 1`    (b) `n % 2 == 0`    (c) `n // 2 == 0`    (d) `n % 2 != 0`

### 1.8 Question 8: Lists

What is the output of `len([10, 20, 30, 40])`?

- (a) 3    (b) 4    (c) 5    (d) 0

### 1.9 Question 9: List Methods

Given `list = [3, 1, 4, 2]`, what is the result of `list.sort()`?

- (a) `[1, 2, 3, 4]`    (b) `[4, 3, 2, 1]`    (c) `[3, 1, 4, 2]`    (d) `[2, 4, 1, 3]`

### 1.10 Question 10: List Methods

What does `list.remove(2)` do for `list = [1, 2, 3, 2]`?

- (a) Removes all 2s    (b) Removes first 2    (c) Removes last 2    (d) Error

## 2 Programming Questions (20 marks)

### 2.1 Question 11: Strings

Write a Python program to print the length of a string input by the user.

### 2.2 Question 12: String Concatenation

Write a Python program to concatenate "Learn" and "Python" and print the result.

### 2.3 Question 13: String Slicing

Write a Python program to print the slice "Col" from `str = "ApnaCollege"`.

### 2.4 Question 14: String Functions

Write a Python program to replace "bad" with "good" in `str = "This is bad"` and print the result.

### 2.5 Question 15: String Functions

Write a Python program to check if `str = "I am a coder."` ends with "coder." and print the result.

### 2.6 Question 16: Conditional Statements

Write a Python program to input a number and print "Positive" if it is greater than 0, otherwise print "Non-positive".

### 2.7 Question 17: Conditional Statements

Write a Python program to input a students marks and print their grade (A:  $\geq 90$ , B: 80-89, C: 70-79, D:  $< 70$ ).

### 2.8 Question 18: Conditional Statements

Write a Python program to input three numbers and print the greatest.

### **2.9 Question 19: Lists**

Write a Python program to create a list `[5, 10, 15]`, append 20, and print the list.

### **2.10 Question 20: List Methods**

Write a Python program to create a list `[4, 2, 3, 1]`, sort it in ascending order, and print the result.