

Day-1 Quiz-DataScience-Training

Welcome to the Python Programming Quiz! This quiz tests your knowledge of Python, focusing on variables, functions, operators, flow controls, conditional statements, and loops. Please read the instructions carefully before starting the quiz.

Instructions and Rules

- **Time Limit:** You have 20 minutes to complete the quiz.
- **Number of Questions:** The quiz consists of 20 multiple-choice questions.
- **Scoring:** Each correct answer is worth 1 point. There is no negative marking for incorrect answers.
- **Single Attempt:** You are allowed only one attempt to complete the quiz.
- **Required Fields:** All questions are mandatory. You must answer each question to submit the quiz.
- **Resources:** This is a closed-book quiz. Do not use any external resources, including books, notes, or the internet.
- **Honesty:** Please answer the questions honestly and to the best of your ability. Cheating or dishonesty will result in disqualification.
- **Environment:** Ensure you are in a quiet environment where you can concentrate without interruptions.
- **Technical Issues:** In case of technical issues, please contact the quiz administrator immediately.
- **Retakes:** There are no retake opportunities for this quiz. Ensure you are prepared before starting.

Good luck, and do your best!

* Indicates required question

1. Email *

2. 1. What is the output of the following code? *

1 point

```
x = 5
y = "5"
z = x + int(y)
print(z)
```

Mark only one oval.

- ☐ a) 55
- ☐ b) 10
- ☐ c) Error
- ☐ d) None of the above

3. 2. Which of the following variable names is invalid in Python? *

1 point

Mark only one oval.

- ☐ a) my_var
- ☐ b) _myvar
- ☐ c) 2myvar
- ☐ d) myVar2

4. 3. What is the output of the following code? *

1 point

```
a, b, c = 1, 2, 3  
print(a + b + c)
```

Mark only one oval.

- ☐ a) 6
- ☐ b) 123
- ☐ c) Error
- ☐ d) None of the above

5. 4. Which operator is used for exponentiation in Python? *

1 point

Mark only one oval.

- ☐ a) ^
- ☐ b) **
- ☐ c) *
- ☐ d) %

6. 5. What is the output of the following code? *

1 point

```
x = 5  
x += 3  
print(x)
```

Mark only one oval.

☐ a) 8

☐ b) 5

☐ c) 15

☐ d) 3

7. 6. What is the output of the following code? *

1 point

```
x = 10
if x < 15:
    print("Less than 15")
else:
    print("Greater than or equal to 15")
```

Mark only one oval.

- ☐ a) Less than 15
- ☐ b) Greater than or equal to 15
- ☐ c) Error
- ☐ d) None of the above

8. **7 . Which of the following statements will terminate a while loop prematurely? ***

1 point

Mark only one oval.

- ☐ a) exit
- ☐ b) continue
- ☐ c) stop
- ☐ d) break

9. 8. What is the output of the following code? *

1 point

```
x = 7
if x > 10:
    print("x is greater than 10")
elif x > 5:
    print("x is greater than 5 but less than or equal to 10")
else:
    print("x is 5 or less")
```

Mark only one oval.

- ☐ a) x is greater than 10
- ☐ b) x is greater than 5 but less than or equal to 10
- ☐ c) x is 5 or less
- ☐ d) None of the above

10. 9. What is the output of the following code? *

1 point

```
x = 10
if x > 5:
    if x < 15:
        print("x is between 5 and 15")
```

Mark only one oval.

- ☐ a) x is greater than 5
- ☐ b) x is between 5 and 15
- ☐ c) x is less than 15
- ☐ d) Error

11. 10. What is the output of the following code? *

1 point

```
count = 5
while count > 0:
    print(count)
    count -= 1
```

Mark only one oval.

- ☐ a) 5 4 3 2 1
- ☐ b) 5 4 3 2 1 0
- ☐ c) 4 3 2 1 0
- ☐ d) 5 4 3 2

12. 11. What is the purpose of the continue statement in a loop? *

1 point

Mark only one oval.

- ☐ a) Exit the loop
- ☐ b) Skip the rest of the code inside the loop for the current iteration
- ☐ c) Restart the loop
- ☐ d) Stop the execution of the program

13. 12. What is the output of the following code? *

1 point

```
for num in range(5):  
    if num == 3:  
        continue  
    print(num)
```

Mark only one oval.

- ☐ a) 0 1 2 3 4
- ☐ b) 0 1 2 4
- ☐ c) 1 2 4
- ☐ d) 0 1 2

14. 13. Which statement is used to create a placeholder for future code? *

1 point

Mark only one oval.

- ☐ a) continue
- ☐ b) pass
- ☐ c) break
- ☐ d) next

15. 14. What is the output of the following code? *

1 point

```
for i in range(1, 10, 3):  
    print(i, end=' ')
```

Mark only one oval.

- ☐ a) 1 2 3 4 5 6 7 8 9
- ☐ b) 1 4 7 10
- ☐ c) 1 4 7
- ☐ d) 1 3 6 9

16. 15. What is the output of the following code? *

1 point

```
for i in range(3):  
    print(i)  
else:  
    print("Loop completed")
```

Mark only one oval.

- ☐ a) 0 1 2 Loop completed
- ☐ b) 0 1 2
- ☐ c) Loop completed
- ☐ d) 1 2 3 Loop completed

17. 16. What is the output of the following code? *

1 point

```
for i in range(3):  
    for j in range(2):  
        print(i, j)
```

Mark only one oval.

- ☐ a) 0 0 0 1 1 0 1 1 2 0 2 1
- ☐ b) 0 0 1 0 2 0 0 1 1 1 2 1
- ☐ c) 0 0 0 1 1 0 2 1
- ☐ d) 0 0 1 0 2 0

18. 17. Which of the following is a valid way to increment a variable x by 1? *

1 point

Mark only one oval.

- ☐ a) $x = x + 1$
- ☐ b) $x += 1$
- ☐ c) $x++$
- ☐ d) Both a and b

19. 18. What is the output of the following code? *

1 point

```
numbers = [1, 2, 3, 4]
for num in numbers:
    if num % 2 == 0:
        continue
    print(num * 2, end=' ')
```

Mark only one oval.

- ☐ a) 2 6
- ☐ b) 2 4 6 8
- ☐ c) 2 6 10
- ☐ d) 4 8

20. 19. What will the list `even_numbers` contain after executing the following code? *

1 point

```
numbers = [2, 7, 4, 9, 6, 11]

even_numbers = []
for num in numbers:
    if num % 2 == 0:
        even_numbers.append(num)

print("Even numbers:", even_numbers)
```

Mark only one oval.

- ☐ a) [2, 4, 6]
- ☐ b) [2, 4, 6, 11]
- ☐ c) [7, 9, 11]
- ☐ d) [2, 7, 4, 9, 6, 11]

21. 20. What will be printed by the following code? *

1 point

```
fruits = ["apple", "banana", "orange", "grape"]

for fruit in fruits:
    if fruit == "banana":
        print("Yes, 'banana' is in the list")
        break
    else:
        print("No, 'banana' is not in the list")
```

Mark only one oval.

- ☐ a) Yes, 'banana' is in the list
- ☐ b) No, 'banana' is not in the list
- ☐ c) Yes, 'banana' is in the list No, 'banana' is not in the list
- ☐ d) Nothing is printed

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