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!

The respondent's email (**vaibhavmiglani8826@gmail.com**) was recorded on submission of this form.

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

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

○ a) 55

◉ b) 10

○ c) Error

○ d) None of the above

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

1 point

○ a) my_var

○ b) _myvar

● c) 2myvar

○ d) myVar2

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

1 point

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

● a) 6

○ b) 123

○ c) Error

○ d) None of the above

4. Which operator is used for exponentiation in Python? *　　　　　　　1 point

○ a) ^

◉ b) **

○ c) *

○ d) %

5. What is the output of the following code? *　　　　　　　1 point

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

◉ a) 8

○ b) 5

○ c) 15

○ d) 3

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

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

● a) Less than 15

○ b) Greater than or equal to 15

○ c) Error

○ d) None of the above

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

1 point

- ○ a) exit
- ○ b) continue
- ○ c) stop
- ● d) break

8. **What is the output of the following code?** *   1 point

```python
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")
```

○ 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

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")
```

○ a) x is greater than 5

◉ b) x is between 5 and 15

○ c) x is less than 15

○ d) Error

10. **What is the output of the following code?** *   1 point

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

○ a) 5 4 3 2 1

○ b) 5 4 3 2 1 0

○ c) 4 3 2 1 0

○ d) 5 4 3 2

11. What is the purpose of the continue statement in a loop? *   1 point

○ 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

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

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

○ a) 0 1 2 3 4

◉ b) 0 1 2 4

○ c) 1 2 4

○ d) 0 1 2

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

1 point

○ a) continue

◉ b) pass

○ c) break

○ d) next

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

1 point

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

○ a) 1 2 3 4 5 6 7 8 9

○ b) 1 4 7 10

◉ c) 1 4 7

○ d) 1 3 6 9

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

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

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

16. What is the output of the following code? *   1 point

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

◉ 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

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

◯ a) x = x + 1

◯ b) x += 1

◯ c) x++

◉ d) Both a and b

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

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

◉ a) 2 6

○ b) 2 4 6 8

○ c) 2 6 10

○ d) 4 8

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

1 point

```python
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)
```

◉ a) [2, 4, 6]

○ b) [2, 4, 6, 11]

○ c) [7, 9, 11]

○ d) [2, 7, 4, 9, 6, 11]

20. What will be printed by the following code? *   1 point

```python
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")
```

- ⦿ 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