

**ISM WEST
DIGITAL THINKING
SECOND TERM
2025 – 2026**

1. True / False

Python is case-sensitive, so NAME, name, and Name are treated as different variables.

- ☐ True
☐ False

2. True / False

In Python, indentation does not matter as long as the code is correct.

- ☐ True
☐ False

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3. Short Answer

What is an algorithm?

- ☐ A. step-by-step set of instructions used to solve a problem or complete a task
☐ B. type of computer hardware
☐ C. A programming language
☐ D. random guess made by a computer

4. Multiple Choice

What is the purpose of a variable in Python?

- ☐ A. To print messages
- ☐ B. To store information
- ☐ C. To repeat code
- ☐ D. To stop the program

5. Multiple Choice

Which variable stores a number?

- ☐ A. `age = "15"`
- ☐ B. `age = 15`
- ☐ C. `age = True`
- ☐ D. `age = "age"`

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6. Multiple Choice

What data type is returned by the expression `10/2`?

- ☐ A. integer
- ☐ B. float
- ☐ C. str
- ☐ D. bool

7. Multiple Choice

Which of the following is a Boolean expression?

- ☐ A. "5 > 3"
- ☐ B. 5 = 3
- ☐ C. 5 > 3
- ☐ D. True = 1

8. Multiple Choice

Which line will cause an error?

- ☐ A. age = 15
- ☐ B. if age >= 13:
- ☐ C. if age = 13:
- ☐ D. print(age)

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9. Multiple Choice – Code Reading

What will this code print?

```
result = 10 + 5 * 2  
print(result)
```

- ☐ A. 30
- ☐ B. 20
- ☐ C. 25
- ☐ D. 15

10. True / False

The condition $(5 + 5) * 2 == 20$ is True.

- ☐ True
☐ False

11. True / False

`input()` always stores the user's input as text (string).

- ☐ True
☐ False

12. Multiple Choice

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What does this code do?

```
name = input("Enter your name: ")
```

- ☐ A. Stores a number
☐ B. Prints the name
☐ C. Asks the user for text and stores it
☐ D. Converts text to a number

13. Multiple Choice

What does `int()` do?

- ☐ A. Prints text
- ☐ B. Converts text to a number
- ☐ C. Creates a variable
- ☐ D. Compares values

14. Multiple Choice – Code Prediction

If the user enters 10, what will be printed?

```
age = input("Enter your age: ")
age = int(age)
print(age + 5)
```

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- ☐ A. 105
- ☐ B. "15"
- ☐ C. 15
- ☐ D. Error

15. Short Answer – Debugging

Why does this code cause an error?

```
age = input("Enter your age: ")
print(age + 1)
```

16. Fill in the Blank

Complete the code so it works correctly:

```
number = input("Enter a number: ")  
number = _____  
print(number * 2)
```

17. True / False

print() is used to display information on the screen.

- ☐ True
☐ False

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18. Multiple Choice

Which operator should be used to check equality?

- ☐ A. =
☐ B. ==
☐ C. >=
☐ D. !=

19. Fill in the Blank

Python reads code from _____ to _____.

20. Short Answer

What happens if none of the conditions are True and there is no **else**?

21. Fill in the Blank

Complete the code so it checks if age is less than 13:

```
if age ____ 13:  
    print("Child")
```

22. What does the following Python code do?

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```
print("Hello, Python!")
```

- ☐ A. It asks the user to type a message
- ☐ B. It shows the text **Hello, Python!** on the screen
- ☐ C. It saves the text in a variable
- ☐ D. It causes an error

23. Code Prediction

What will be printed?

```
x = 8
y = 2

if x/y == 4:
    print("Correct")
else:
    print("Wrong")
```

24. What does the following Python code do?

```
message = "Hello"
print(message)
```

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- ☐ A. It prints the word **Hello** on the screen
- ☐ B. It asks the user to type a message
- ☐ C. It causes a syntax error
- ☐ D. It prints the variable name instead of its value

25. Fill in the Blank

Complete the code to correctly compare a string pass:

```
pass="admin"  
  
if pass ____ "admin":  
    print("Access")
```

26. What will be the output of the following Python code?

```
a = 8  
  
b = 4  
  
result = a + b  
  
print(result)
```

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- ☐ A. 84
- ☐ B. 12
- ☐ C. 4
- ☐ D. Error

27. In Python, what happens when an else statement is executed?

- A) It runs when the if condition is **True**
- B) It runs when the if condition is **False**
- C) It runs before the if condition is checked
- D) It runs only if there is an error in the program

28. Code Prediction

What will this code print?

```
temp = 29

if temp >= 30:
    print("Hot")
else:
    print("Cold")
```

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29. Code Prediction

What will this code print?

```
age = 18

if age >= 18:
    print("Adult")
else:
    print("Teen")
```

30. Write a Python program that asks for a number.

The program must follow this rule:

- **Low** → the number is less than 10
- **Not Low** → the number is 10 or greater

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