

TIN HỌC 10 - CHỦ ĐỀ F: GIẢI QUYẾT VẤN ĐỀ VỚI SỰ TRỢ GIÚP
CỦA MÁY TÍNH

Chủ đề con: Lập trình cơ bản
BÀI 6. CÂU LỆNH RỄ NHÁNH

1. You go to a shop, and if you have enough money, you will buy a toy.
What is the condition?
 - A. If the toy is expensive
 - B. If you have enough money
 - C. If the shop is open
 - D. If the toy is blue
2. You are doing your homework, and if you finish it early, you can watch TV. What is the condition?
 - A. If you like the TV show
 - B. If you finish your homework early
 - C. If your friend comes over
 - D. If it's sunny outside
3. In a branching structure, what happens when a condition is True?
 - A. The program skips to the next section without checking the condition.
 - B. The program executes the code in the 'True' branch and then stops.
 - C. The program executes the code in the 'True' branch, skips the 'False' branch, and continues.
 - D. Both the 'true' and 'false' branches are executed.
4. What does a branching structure in an algorithm allow you to do?
 - A. Execute a specific block of code only when a condition is met
 - B. Repeat a block of code multiple times
 - C. Stop the program immediately
 - D. Combine two or more conditions into one

5. What happens in a branching structure if the condition is False?

- A. The program stops execution completely.
- B. The program will re-check the condition.
- C. The program ignores both branches and moves to the next condition.
- D. The program will execute the 'else' or 'false' branch if it exists.

6. Which of the following is the correct Python operator for checking if two values are equal?

- A. =
- B. ==
- C. !=
- D. <>

7. Given A = 5 and B = 10, which of the following expressions evaluates to True?

- A. A > B
- B. A <= B
- C. A == B
- D. A + B < 10

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

```
a = 10
b = 20
c = 5

if a > c and b > a:
    print("Condition 1")
elif a < c or b == 20:
    print("Condition 2")
else:
    print("Condition 3")
```

- A. Condition 1
- B. Condition 2
- C. Condition 3
- D. Syntax Error

9. What does the else clause do in an if-else structure?

- A. It checks another condition after the if condition.
- B. It runs a block of code when the if condition is True.
- C. It runs a block of code when the if condition is False.
- D. It stops the program if the if condition is not met.

10. In Python, which of the following is correct regarding indentation in if statements?"

- A. Indentation is optional and only used for readability.
- B. Indentation is required for blocks of code following an if statement.
- C. Only the if line needs to be indented.
- D. Python ignores indentation.