

10. *What is the purpose of the following code?*
`int i = 0; while (i < 10) { i++; }`
Answer: The purpose of the code is to increment the variable `i` from 0 to 10.
Explanation: The code declares an integer variable `i` and initializes it to 0. It then enters a `while` loop that continues as long as `i` is less than 10. Inside the loop, `i` is incremented by 1. The loop terminates when `i` reaches 10.

[illegible]