## Week 3: Control Flow

W3\_Practical.cpp

**Objective:** Use conditional statements (if-else) and loops (for) to control program execution. **Task:** Write a program that asks the user for a score out of 100. Based on the score, it should print the corresponding grade (A: 70+, B: 60-69, C: 50-59, Fail: <50). Then, use a for loop to print "Well done!" three times if the grade is an A.

## **Solution:**

```
C++
#include <iostream>
int main() {
  int score;
  char grade;
  // Prompt the user for input.
  std::cout << "Please enter your score (0-100): ";
  std::cin >> score; // Read integer input from the user.
  // Use an if-else if-else chain to determine the grade.
  if (score >= 70 && score <= 100) {
    grade = 'A';
  } else if (score >= 60) {
    grade = 'B';
  } else if (score >= 50) {
    grade = 'C';
  } else {
    grade = 'F'; // 'F' for Fail
  }
  std::cout << "Your grade is: " << grade << std::endl;
```

```
// Use an if statement and a for loop for a special message.
if (grade == 'A') {
   for (int i = 0; i < 3; ++i) {
      std::cout << "Well done!" << std::endl;
   }
}
return 0;
}</pre>
```