**Test Score Assignment 2**

#include <iostream>

using namespace std;

int main()

{

float number2, number1, answer;

cout << "How many points was the test out of?" << endl;

cin >> number2;

cout << "How many points did you earn?" << endl;

cin >> number1;

answer = number1 / number2 \* 100;

if (answer >= 100) {

cout << "Your score is " << answer << "\nA+!" << endl;

}

else if (answer > 89) {

cout << "Your score is " << answer << "\nA" << endl;

}

else if (answer > 79) {

cout << "Your score is " << answer << "\nB" << endl;

}

else if (answer > 69) {

cout << "Your score is " << answer << "\nC" << endl;

}

else if (answer > 59) {

cout << "Your score is " << answer << "\nD" << endl;

}

else {

cout << "Your score is " << answer << "\nF" << endl;

}

return 0;

}

**Correct Example 1**

#include <iostream>

using namespace std;

int main()

{

int num;

cout << "Please Enter Your Test Score (perecentage): " << endl;

cin >> num;

if (num >= 100)

{

cout << "You got a Perfect Score!!!";

}

else if (num >= 90)

{

cout << "You got an A on your exam!\n";

}

else if (num >= 80)

{

cout << "You got a B on your exam!\n";

}

else if (num >= 70)

{

cout << "You got a C on your exam!\n";

}

else if (num >= 60)

{

cout << "You got a D on your Exam...\n";

}

else

{

cout << "Sorry: You have failed\n";

}

return 0;

}

**Correct Example 2**

#include <iostream>

using namespace std;

int main()

{

int num;

cout << "Please Enter Your Test Score (perecentage): " << endl;

cin >> num;

if (num >= 100) //These IF statements are all connected because of **ELSE IF**

{

cout << "You got a Perfect Score!!!";

}

else if (num<=99 && num >= 90)

{

cout << "You got an A on your exam!\n";

}

else if (num<=89 && num >= 80)

{

cout << "You got a B on your exam!\n";

}

else if (num<=79 && num >= 70)

{

cout << "You got a C on your exam!\n";

}

else if (num<=69 && num >= 60)

{

cout << "You got a D on your Exam...\n";

}

else

{

cout << "Sorry: You have failed\n";

}

return 0;

}

***INCORRECT* Example 1**

#include <iostream>

using namespace std;

//THIS PROGRAM WILL NOT WORK PROPERLY

int main()

{

int num;

cout << "Please Enter Your Test Score (perecentage): " << endl;

cin >> num;

if (num >= 100) //These are all separate IF statements

{

cout << "You got a Perfect Score!!!";

}

if (num >= 90) //These are all separate IF statements

{

cout << "You got an A on your exam!\n";

}

if (num >= 80) //These are all separate IF statements

{

cout << "You got a B on your exam!\n";

}

if (num >= 70) //These are all separate IF statements

{

cout << "You got a C on your exam!\n";

}

if (num >= 60) //These are all separate IF statements

{

cout << "You got a D on your Exam...\n";

}

else //These are all separate IF statements

{

cout << "Sorry: You have failed\n";

}

return 0;

}