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A20321505

ITM 312

Lab 04

**Source Code:**

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\* File: main.cpp

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#include <cstdlib>

#include <iostream>

#include <string>

using namespace std;

// assigns score ranges to letter grades

string convert (double score){

string scoreGrade;

while(score <= 100 && score >= 90){

scoreGrade = "Your grade is A.";

return scoreGrade;

}

while(score < 90 && score >= 80){

scoreGrade = "Your grade is B.";

return scoreGrade;

}

while(score < 80 && score >= 70){

scoreGrade = "Your grade is C.";

return scoreGrade;

}

while(score < 70 && score >= 60){

scoreGrade = "Your grade is D.";

return scoreGrade;

}

while(score < 60 && score >= 0){

scoreGrade = "Your grade is F.";

return scoreGrade;

}

}

int main(int argc, char\*\* argv) {

double score;

// asks user to input their score

cout << "Hello, please enter your score:" << endl;

cin >> score;

// message telling user score is invalid, try again

while(score < 0 || score > 100){

cout << "Please enter valid score between 0-100!" << endl;

cout << "Hello, please enter your score." << endl;

cin >> score;

}

cout << convert(score) << endl;

return 0;

}

**Output:**

