

GHANA COMMUNICATION

TECHNOLOGY UNIVERSITY

INSTITUTE OF CONTINUING

AND DISTANCE EDUCATION (ICDE)

|  |  |
| --- | --- |
| COURSE CODE | CICS 112 |
| COURSE TITLE | Programming with C++ |
| NAME | Agbenyo Delator Rogers |
| STUDENT ID | 2425140023 |
| DATE | 23rd September, 2025 |

Write a program to find and print the grade of a student by using the switch statement in C++.

#include <iostream>

using std::cin;

using std::cout;

using std::string;

int getPosition(double gpa)

{

if (gpa >= 3.6)

return 1;

if (gpa >= 3.0)

return 2;

if (gpa >= 2.5)

return 3;

if (gpa >= 2.0)

return 4;

if (gpa >= 1.0)

return 5;

return 6;

};

string getGrade(int position)

{

switch (position)

{

case 1:

return "First Class";

case 2:

return "Second Class Upper";

case 3:

return "Second Class Lower";

case 4:

return "Third Class";

case 5:

return "Pass";

case 6:

return "Fail";

default:

return "Invalid gpa";

}

};

int main()

{

double gpa;

cout << "\n\n========== STUDENT GPA GRADING SYSTEM ==========\n\n";

cout << "Please enter your gpa: ";

cin >> gpa;

if (gpa < 0 || gpa > 4)

{

cout << "\n\nInvalid gpa! Should be between 0.0 and 4.0\n\n";

return 1;

};

int position = getPosition(gpa);

string grade = getGrade(position);

cout << "\n\nYour grade is: " << grade << "\n\n";

return 0;

}



