

GHANA COMMUNICATION TECHNOLOGY UNIVERSITY

INSTITUTE OF CONTINUING AND DISTANCE EDUCATION (ICDE)

COURSE CODE	CICS 112
COURSE TITLE	Programming with C++
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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 (qpa >= 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;
}</pre>
```

```
main()
     #include <iostream>
  3 using std::cin;
  4 using std::cout;
  5 using std::string;
  6
 7 > int getPosition(double gpa) ...
 28 > string getGrade(int position)...
 56
      int main()
 58
          double gpa;
 60
          cout << "\n\n======= STUDENT GPA GRADING SYSTEM =======\n\n";</pre>
 62
 63
          cout << "Please enter your gpa: ";</pre>
 64
          cin >> gpa;
          if (gpa < 0 || gpa > 4)
 66
 67
```