Delta College
CSP31A – C++ Programming I
In-class Lab 05

Question 1

The grade for a test is based on the actual score and is calculated as shown in the table below.

Score	Grade
[90,100]	A
[80,90)	B
[70,80)	C
[60,70)	D
Less than 60	F

Note that [90,100] means that score is >= 90 and <= 100 while [80,90) means that score >= 80 but < 90 and so on.

Prompt user to enter a value for score from the keyboard. Then verify that score entered must be between 0 and 100 inclusive. If it is outside this range, display an Invalid score entered message. Otherwise, display the score and the grade for that score.

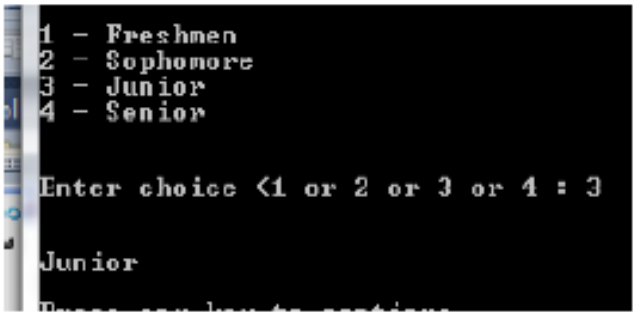
Question 2

A program that displays student's status in a 4-year college and then user will enter a number for each selection. An if-else-if logic is then used to print the choice selected.

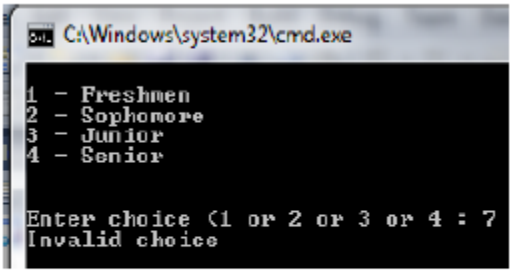
The program is shown below

```
int main()
{
    char status;

    cout << "\n1 - Freshmen";
    cout << "\n2 - Sophomore";
    cout << "\n3 - Junior";
    cout << "\n4 - Senior\n\n";

    cout << "\nEnter choice (1 or 2 or 3 or 4 : ";
    cin >> status;

    if (status == '1')
        cout << "\n\nFreshmen";
    else if (status == '2')
        cout << "\n\nSophomore";
    else if (status == '3')
        cout << "\n\nJunior";
    else if (status == '4')
        cout << "\n\nSenior";
    else
        cout << "Invalid choice ";

    return 0;
}
```

A sample output for above code is shown below:



Here is another one



Your task here is to convert the testing from using the if-else-if structure to using a **switch** structure. In addition, change the data type of variable status from char to int

Submission in Etudes.