```cpp
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//Course  : CS 150
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//HW      : 1
//Project : 1

#include <iostream>

using namespace std;

int main() {

    char response;

    cout << "Are you taking a class? (Y/N): ";
    cin >> response;
    cout << endl;

    if (response == 'y' || response == 'Y') {

        cout << "Enter your letter grade for the class: ";
        cin >> response;
        cout << endl;

        switch (response) {

            case 'A':
            case 'a':
            case 'B':
            case 'b':
                cout << "Great job!" << endl;
                break;
            case 'C':
            case 'c':
                cout << "You're doing alright." << endl;
                break;
            case 'D':
            case 'd':
            case 'F':
            case 'f':
                cout << "You can improve." << endl;
                break;
            default:
                cout << "Invalid grade." << endl;
        }
    }
    else if (response == 'n' || response == 'N') {

        cout << "Thanks for using the system." << endl;
    }
    else {

        cout << "Invalid input." << endl;
    }

    return 0;
}
```

```
Are you taking a class? (Y/N): N

Thanks for using the system.

--------------------------------
Process exited after 2.173 seconds with return value 0
Press any key to continue . . .
```

```
Are you taking a class? (Y/N): n

Thanks for using the system.

--------------------------------
Process exited after 2.049 seconds with return value 0
Press any key to continue . . .
```

```
Are you taking a class? (Y/N): Z

Invalid input.

_____
Process exited after 2.433 seconds with return value 0
Press any key to continue . . .
```

```
Are you taking a class? (Y/N): y

Enter your letter grade for the class: a

Great job!

_____
Process exited after 2.907 seconds with return value 0
Press any key to continue . . .
```

```
Are you taking a class? (Y/N): Y

Enter your letter grade for the class: B

Great job!

_____
Process exited after 3.681 seconds with return value 0
Press any key to continue . . .
```

```
Are you taking a class? (Y/N): Y

Enter your letter grade for the class: C

You're doing alright.

_____
Process exited after 2.786 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\brend\Desktop\CS 150 Workspace\HW01.exe                    —      □      ✕

Are you taking a class? (Y/N): Y

Enter your letter grade for the class: D

You can improve.

_____
Process exited after 2.719 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\brend\Desktop\CS 150 Workspace\HW01.exe                    —      □      ✕

Are you taking a class? (Y/N): Y

Enter your letter grade for the class: F

You can improve.

_____
Process exited after 4.821 seconds with return value 0
Press any key to continue . . .
```

```
Are you taking a class? (Y/N): Y

Enter your letter grade for the class: X

Invalid grade.

_____
Process exited after 2.231 seconds with return value 0
Press any key to continue . . .
```