

# Sample Program 3.2

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## Form Letter

**Problem statement.** Write two different programs, each with three variables to store a student's name, the course they are taking, and the student's grade, and use these variables to complete a form letter that gets sent to console output.

**Solution #1, using concatenation.**

```
#include <iostream>
#include <string>
using namespace std;

int main()
{
    string name = "Joe Student";
    string course = "CS-101";
    char grade = 'A';

    string formLetter = "Congratulations, " + name;
    formLetter = formLetter + ". Your grade in " + course + " is ";
    formLetter = formLetter + grade + '.';

    cout << formLetter << endl;
}
```

**Solution #2, without concatenation.**

```
#include <iostream>
#include <string>
using namespace std;

int main()
{
    string name = "Joe Student";
    string course = "CS-101";
    char grade = 'A';

    cout << "Congratulations, " << name;
    cout << ". Your grade in " << course << " is ";
    cout << grade << '.' << endl;
}
```