

Year 9: Simple User Registration: Part One. Read and Predict the Outcome of the Program. Make notes.

```
// Basic User Registration (part one) Task
// basicUserRegistration.cpp
// Created by Ian Grant on 12/03/2018.

#include <iostream> // this handles standard in and output
#include <fstream> // this handles opening and saving to the filesystem.
#include <string> // strings

using namespace std;

int main() {
    // init strings

    string firstname;
    string username;
    string surname;
    string dob;
    string password;
    ofstream outputfile;

    // define a loop to repeat the data entry 5 times – let's have 5 records
    int run = 0;
    while (run < 5) {

        // user input to Add New User
        cout << "Please enter your firstname:\n>";
        cin >> firstname;
        cout << "Please enter your surname:\n>";
        cin >> surname;
        cout << "Please enter your date of birth:\n>";
        cin >> dob;
```

Notes

What do the include statements do?

main() – why is main special?

What is the data type of all these variables?

What kind of loop is this?

cout Does What?

cin Does What?

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```
// Create the username by manipulating the strings
for (string::size_type i = 0; i < 3; i++)
{
    username = username + firstname[i];
}
username = username + surname[0] + dob;

cout << "Username created: " << username << "\n";

// prompt to enter password
cout << "Please enter a password for username: " << username << "\n";
cin >> password;

// save the file
outputfile.open ("Users.txt", ios::app); // step 1
outputfile << "Firstname," << firstname << "\n"; // step 2
outputfile << "Surname," << surname << "\n"; // step 3
outputfile << "DOB," << dob << "\n"; // step 4
outputfile << "Username," << username << "\n"; // step 5
outputfile << "Password," << password << "\n"; // step 6
outputfile.close(); // step 7
cout << "User created. File saved" << endl; // confirmation message

run = run + 1; // this adds to the loop control counter

}

return 0;
}
```

What happens in this part of the program?

What happens next in the sequence?

What is happening here?

Where do you think it would save the file?

The run variable keeps a count. How many times will this program run?

Get the program from Student Share and run it