**Name: Michael Osei**

**COSC 3380 – Lab 2**

**Code**

**Program1.bat**

echo off

set file=%1

@prog1.exe %file%

@prog2.exe

IF %ERRORLEVEL% EQU 0 (

echo "Ages are not between 0 and 120"

) ELSE (

prog3.exe

)

echo on

**prog1.cxx**

int main(int argc, char\*\*argv) {

std::cout << "Running prog1\n";

std::ifstream in(argv[1]);

std::ofstream on("temp.txt",std::ios::trunc);

char c;

std::string line;

std::vector<std::string> lines;

while(std::getline(in, line)){

lines.push\_back(line);

}

std::sort(lines.begin(), lines.end());

for (auto l: lines) {

on << l + '\n';

}

}

**prog2.cxx**

int main() {

std::cout << "Running prog2\n";

std::ifstream in("temp.txt");

std::string line, name;

int age;

std::vector<std::string> lines;

while(std::getline(in, line)) {

in >> name >> age;

if (age < 0 || age > 120) {

return 0;

}

}

return 1;

}

**prog3.cxx**

int main() {

std::ifstream in("temp.txt");

std::string line, name;

int age;

std::vector<std::string> lines;

while(std::getline(in, line)) {

lines.push\_back(line);

}

std::remove\_if(lines.begin(), lines.end(),

[](std::string s) {

return std::stoi(std::string(s, s.size() - 3, 2)) < 20;

});

for(auto s : lines) {

std::cout << s << '\n';

}

}

**Output**

C:\Users\sci206\Downloads\COSC3380-master\Lab2>program1.bat file1.txt

C:\Users\sci206\Downloads\COSC3380-master\Lab2>echo off

Running prog1

Running prog2

Frank 33

George 34

Mary 11

Paul 14

Samuel 23

Susan 34

Timothy 45

Tom 23

C:\Users\sci206\Downloads\COSC3380-master\Lab2>program1.bat file2.txt

C:\Users\sci206\Downloads\COSC3380-master\Lab2>echo off

Running prog1

Running prog2

"Ages are not between 0 and 120"