

[Ravi Patel]

Instructor: Dr. Hindo

[CPSC 230]

Assignment 6 - Part 1

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//CPSC 230 RAVI PATEL FSTREAM ASSIGNMENT 6 PART 1
#include <iostream> //for display functions
#include <fstream> //for file functions
#include <cstdlib> //for exit function
using namespace std;
int main(int argc, char *argv[]) {
    int a; //declare int a for display below
    int sum = 0; //declare int sum for calculation below
    int avg = 0; //declare int avg for calculation below
    ifstream inf; //declare input file
    ofstream ouf; //declare output file
    inf.open("itextfile.txt"); //input file open itextfile.txt
    //ouf.open("otextfile.txt"); //open output file otextfile.txt
    ouf.open("otextfile.txt", ios::app); //open output file as an append
    if (ouf.fail()) //if opening input file fails
    {
        cout << "Error opening output file!" << endl; //display error
opening file
        exit(1); //exit program
    }
    if (inf.fail()) //if opening input file fails
    {
        cout << "Error opening input file!" << endl; //display error
opening file
        exit(1); //exit program
    }

    while (!inf.eof()) //while not at the end of the file
    {
        inf >> a; //equivalent to cin >> a; read file line by line
        avg++; //add to number counter for average calculation below
        ouf << a << endl; //output values to output file
        sum += a; //add number to sum for output to file below
        cout << a << endl; //display value of a line by line
    }

    ouf << sum << endl; //append sum to output file
    ouf << sum/avg << endl; //append average to output file
    inf.close(); //input file close
    ouf.close(); //close output file
}
```

In OUTPUT file:

10
20
30
60
20