Assignment -34 A Job Ready Bootcamp in C++, DSA and IOT MySirG

File Handling

1. Write a C++ program to create a file and print “File created successfully” and throw

an error if file is not created.

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

ofstream fout;

fout.open("D:/My Life/hello.txt");

if (fout)

{

cout << "File Open..";

fout << "Hello World";

}

else

cout << "File not opend...";

fout.close();

return 0;

}

2. Write a C++ program to read a text file and count the number of characters in it.

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

// firstly file created

ofstream fout;

fout.open("D:/My Life/read.txt");

fout << "Hello world";

fout.close();

// file read

ifstream fin;

fin.open("D:/My Life/read.txt");

fin.seekg(0, ios\_base::beg); // file pointer go to starting position

char ch;

int i, countChar = 0, countSpace = 0;

while (!fin.eof())

{

fin.get(ch);

if ((ch >= 65 && ch <= 91) || (ch >= 97 && ch <= 122))

countChar++;

else if (ch == ' ')

countSpace++;

}

cout << "\nNo. of character in a file: " << countChar << endl;

cout << "\nNo. of space between these words: " << countSpace+1 << endl;

fin.close();

return 0;

}

3. Write a C++ program to open an output file 'a.txt' and append data to it.

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

ofstream fout;

fout.open("D:/My Life/read.txt", ios::app);

if (fout.is\_open())

fout << "Append some extra words"; // add these words in a file

else

cout << "File not open..";

fout.close();

return 0;

}

4. Write a program to copy the contents of one text file to another while changing the

case of every alphabet.

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

ifstream fin;

ofstream fout;

fout.open("D:/My Life/first.txt");

fout << "This is first file content";

fout.close();

fin.open("D:/My Life/first.txt");

fout.open("D:/My Life/second.txt");

char ch;

while (!fin.eof())

{

fin.get(ch); // you can use getline(fin, str) function

if (ch >= 65 and ch <= 91)

fout << tolower(ch);

else if (ch >= 97 and ch <= 122)

fout << toupper(ch);

}

fin.close();

fout.close();

return 0;

}

5. Write a C++ program to merge the two files.

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

ifstream fin1, fin2;

ofstream fout;

fin1.open("D:/My Life/first.txt");

fin2.open("D:/My Life/second.txt");

fout.open("D:/My Life/mergeFile.txt");

// you can also check file opened or not

char ch;

while (!fin1.eof())

{

fin1.get(ch); // you can use getline(fin, str) function

fout << ch;

}

while (!fin2.eof())

{

fin2.get(ch); // you can use getline(fin, str) function

fout << ch;

}

fin1.close();

fin2.close();

fout.close();

return 0;

}

6. Write a C++ program that counts the total number of characters, words and lines in

the file.

#include <iostream>

#include <fstream>

using namespace std;

int main()

{

ifstream fin;

fin.open("D:/My Life/mergeFile.txt");

if (fin.is\_open())

{

int noOfLine = 0, noOfChar = 0, noOfWords = 0;

while (!fin.eof())

{

string str;

getline(fin, str);

noOfLine++;

for (int i = 0; i < str.size(); i++)

{

if (str[i] == ' ')

noOfWords++;

else

noOfChar++;

}

}

cout << "\nIn file,\nNo. of line is: " << noOfLine << endl;

cout << "\nNo. of character is: " << noOfChar << endl;

cout << "\nNo. of words is: " << noOfWords +1<< endl;

}

else

{

cout << "File not open..";

}

return 0;

}