**Name: Jamshed Ali**

**Enrollment: 02-131202-008**

**Solution:**

#include<iostream>

#include<direct.h>

#include<fstream>

#include"Tax.cpp"

using namespace std;

int main()

{

    if ( mkdir("Loggedin User 2-12-22")== -1) {

        cout<<"Enter your name"<<endl;

        string name;

         try

        {

            cin>>name;

        }

        catch(const char \*e)

        {

            cout<<""<<e;

        }

        cout<<"Enter Your enrollment Number"<<endl;

        string enrollment;

                try

        {

            cin>>enrollment;

        }

        catch(const char \*e)

        {

            cout<<""<<e;

        }

        ifstream datafile;

        datafile.open("Loggedin User 2-12-22\\"+enrollment+".txt");

        if(datafile){

        cout<<"File exists";

        }

        else{

        ofstream MyFile("Loggedin User 2-12-22\\copy.txt");

        MyFile << name+"\n"+enrollment;

        MyFile.close();

        cout<<" Successfully File created";

        string line;

    ifstream ini\_file{

        "Loggedin User 2-12-22\\copy.txt"

    };

    ofstream out\_file{ "Loggedin User 2-12-22\\"+enrollment+".txt" };

    if (ini\_file && out\_file) {

        while (getline(ini\_file, line)) {

            out\_file << line << "\n";

        }

        cout << "Copy Finished \n";

    }

    else {

        printf("Cannot read File");

    }

    ini\_file.close();

    out\_file.close();

    ofstream ofs;

    ofs.open("Loggedin User 2-12-22\\copy.txt", ofstream::out | ofstream::trunc);

    ofs.close();

    cout<<"Enter Your Transfer Amount :";

    double amount;

    cin>>amount;

    cout<<"Your tax is "<<Calculate(amount);

    }

    }

    else {

        cout<<"Enter your name"<<endl;

        string name;

         try

        {

            cin>>name;

        }

        catch(const char \*e)

        {

            cout<<""<<e;

        }

        cout<<"Enter Your enrollment Number"<<endl;

        string enrollment;

                try

        {

            cin>>enrollment;

        }

        catch(const char \*e)

        {

            cout<<""<<e;

        }

        ifstream datafile;

        datafile.open("Loggedin User 2-12-22\\"+enrollment+".txt");

        if(datafile){

        cout<<"File exists";

        }

        else{

        ofstream MyFile("Loggedin User 2-12-22\\copy.txt");

        MyFile << name+"\n"+enrollment;

        MyFile.close();

        cout<<" Successfully File created";

        string line;

    ifstream ini\_file{

        "Loggedin User 2-12-22\\copy.txt"

    };

    ofstream out\_file{ "Loggedin User 2-12-22\\"+enrollment+".txt" };

    if (ini\_file && out\_file) {

        while (getline(ini\_file, line)) {

            out\_file << line << "\n";

        }

        cout << "Copy Finished \n";

    }

    else {

        printf("Cannot read File");

    }

    ini\_file.close();

    out\_file.close();

    ofstream ofs;

    ofs.open("Loggedin User 2-12-22\\copy.txt", ofstream::out | ofstream::trunc);

    ofs.close();

    }

    cout<<"Enter Your Transfer Amount :";

    double amount;

    cin>>amount;

    cout<<"Your tax is "<<Calculate(amount);

}

}

**Libraries:**

**Header:**

#ifndef Tax

#define Tax

double Calculate(double amount);

#endif

**Calculation:**

#ifndef TAX

#define TAX

#include "Tax.h"

double Calculate(double amount){

    if(amount<1000){

        return amount\*0.05;

    }

    else if(amount<10000){

        return amount\*0.08;

    }

    else if(amount<100000){

        return amount\*0.12;

    }

    else{

        return amount\*0.15;

    }

}

#endif

**Output:**

