Creation of Date L

Your Name

School Name

Abstract

Begin typing your abstract paragraph here. The paragraph should be 150-250 words. After typing in your abstract, go up to the insert ribbon, click and then select page break, Doing so will take you to the first body page of your paper.

Date.h

#ifndef DATE\_H

#define DATE\_H

#define \_CRT\_SECURE\_NO\_WARNINGS

#include <iostream>

#include <ctime>

using namespace std;

class Date

{

private:

int month;

int day;

int year;

public:

Date();

void SetDate(int month, int day, int year);

void PrintDate();

void CurrentDate();

void CurrentMonth();

void CurrentYear();

void CurrentDay();

};

#endif

Date.cpp

#include "Date.h"

Date::Date()

{

month = day = 1;

year = 2000;

}

void Date::SetDate(int m, int d, int y)

{

month = m;

day = d;

year = y;

}

void Date::PrintDate()

{

cout << "Date format: \n";

cout << "MM / DD / YYYY\n";

cout << month << " / " << day << " / " << year << endl;

}

void Date::CurrentDate()

{

time\_t now = time(0);

tm\* ltm = localtime(&now);

cout << "Year: \t" << 1900 + ltm->tm\_year << endl;

cout << "Month: \t" << 1 + ltm->tm\_mon << endl;

cout << "Day: \t" << ltm->tm\_mday << endl;

cout << endl;

}

void Date::CurrentMonth()

{

cout << "Month : " << month << endl;

}

void Date::CurrentYear()

{

cout << "Year : " << year << endl;

}

void Date::CurrentDay()

{

cout << "Day : " << day << endl;

}

Hw6.cpp

#include "Date.h"

int main()

{

int choice, month, day, year;

std::cout << "Creating date library\n";

Date d;

do

{

cout << "Choose operations you want to perform\n";

cout << "1. CurrentDate\n";

cout << "2. SetDate\n";

cout << "3. Print Date\n";

cout << "4. Current Month\n";

cout << "5. Current Year\n";

cout << "6. Current Day\n";

cout << "7. Exit\n";

cout << endl;

cout << "Enter the option\n";

cin >> choice;

switch (choice)

{

case 1: d.CurrentDate();

break;

case 2:

A:

cout << "Enter the month : ";

cin >> month;

if (month > 12 || month < 1)

{

cout << "Enter the valid month!!\n";

goto A;

}

cout << "Enter the year : ";

cin >> year;

B:

cout << "Enter the day : ";

cin >> day;

if (month == 2 && year % 4 == 0)

{

if (day < 1 || day>29)

{

cout << "Enter the valid days!!\n";

goto B;

}

}

else if ((month == 1 || month == 3 || month == 5 || month == 7 || month == 8 || month == 10 || month == 12) && (day > 31 || day < 1))

{

cout << "Enter the valid days!!\n";

goto B;

}

else if ((month == 4 || month == 6 || month == 9 || month == 11) && (day > 30 || day < 1))

{

cout << "Enter the valid days!!\n";

goto B;

}

d.SetDate(month, day, year);

break;

case 3: d.PrintDate();

break;

case 4: d.CurrentMonth();

break;

case 5: d.CurrentYear();

break;

case 6: d.CurrentDay();

break;

case 7: cout << "Exiting the program\n";

break;

default:

cout << "Please enter a valid choice!!\n";

}

} while (choice != 7);

return 0;

}

Output



 