CODE HERE.

OUTPUT ON LAST PAGE.

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#include <iostream>

#include <string>

using namespace std;

//Write a program that asks the user to enter the month (letting the user enter

//an integer in the range of 1 through 12) and the year.

//The program should then display the number of days in that month.

//HINT: Use the following criteria to identify leap years:

// Determine whether the year is divisible by 100.

//If it is, then it is a leap year if and only if it is divisible by 400.

//For example, 2000 is a leap year but 2100 is not.

//If the year is not divisible by 100, then it is a leap year if

//and if only it is divisible by 4. For example, 2008 is a leap year but 2009 is not.

//All source files ( remember source files are .cpp and .hpp and .h files )

//All data files (if used by your program).

//Screenshot of the software running on your machine.

int main(){

int inputMonth;

int calcDays;

string monthName;

int calcYear;

int inputYear;

string qualifier;

cout << "Enter a month (1-12): " ;

cin >> inputMonth;

if (inputMonth < 1 || inputMonth > 12){

cout << "Sorry, please enter 1-12 in the next run. ";

return 1; // need this to end program if user enters a value outside of 1-12.

}

cout << "Enter a year: ";

cin >> inputYear;

if (inputYear > 0 ){

calcYear = inputYear;

qualifier = "AD";

}

else{

calcYear = abs(inputYear);

qualifier = "BC";

}

if (inputMonth == 1)

{

monthName = "January";

}

else if (inputMonth == 2)

{

monthName = "February";

}

else if (inputMonth == 3)

{

monthName = "March";

}

else if (inputMonth == 4)

{

monthName = "April";

}

else if (inputMonth == 5)

{

monthName = "May";

}

else if (inputMonth == 6)

{

monthName = "June";

}

else if (inputMonth == 7)

{

monthName = "July";

}

else if (inputMonth == 8)

{

monthName = "August";

}

else if (inputMonth == 9)

{

monthName = "September";

}

else if (inputMonth == 10)

{

monthName = "October";

}

else if (inputMonth == 11)

{

monthName = "November";

}

else if (inputMonth == 12)

{

monthName = "December";

}

if (inputMonth == 4 || inputMonth == 6 || inputMonth == 9 || inputMonth == 11){

calcDays = 30;

}

else if (inputMonth == 1 || inputMonth == 3 || inputMonth == 5 ||

inputMonth == 7 || inputMonth == 8 || inputMonth == 10 || inputMonth == 12){

calcDays = 31;

}

else if (inputMonth == 2 && inputYear % 100 == 0 && inputYear % 400 == 0 || inputMonth == 2 && inputYear % 10 != 0 && inputYear %4 == 0 )

{ calcDays = 29;}

else {calcDays = 28;}

// now determine if we are in a leap year and if February has 29 days

// or if we are in a regular year and February has 28 days

// Determine whether the year is divisible by 100.

//If it is, then it is a leap year if and only if it is divisible by 400.

//For example, 2000 is a leap year but 2100 is not.

//If the year is not divisible by 100, then it is a leap year if

//and if only it is divisible by 4. For example, 2008 is a leap year but 2009 is not.

if (inputYear < 0 || inputYear > 0 && inputYear < 1000){

cout << "There were " << calcDays << " days in " << monthName << ", " << calcYear << " " << qualifier << "." << endl;

}

else{

cout << "There were " << calcDays << " days in " << monthName << ", " << calcYear << "."<< endl;

}

}

Output:

A screenshot of a computer

AI-generated content may be incorrect.