#include <iostream>

using namespace std;

/\*===============================================================

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Homework #5

purpose: This program will be able to enterd the number

of the month by user and it will display the letters that

represent a month (1 for Jan, 2 for Feb....).

=================================================================\*/

class Month

{

public:

Month(); // default constructor.

void Month1(int month); // constructor.

void setTheMonth();

int getTheMonth();

void DisplayTheMonth();

int NextMonthIs();

private:

int Themonth1;

};

/\*

The purpose:

Month: this is object that called before class member.

setTheMonth: is function back to class member, that

will ask user to enter number of the month.

Displaythemonth: the function back to class member, It will display letters of the months

after the user has enterd the number.

NextMonth: The function it will prompt the number of next month.

\*/

int main(){

//object class member.

Month Num1, num2, num3, num4;

Num1.setTheMonth();

Num1.DisplayTheMonth();

cout << "The next month is: "<< Num1.NextMonthIs() << endl;

num2.setTheMonth();

num2.DisplayTheMonth();

cout << "The next month is: " << num2.NextMonthIs() << endl;

num3.setTheMonth();

num3.DisplayTheMonth();

cout << "The next month is: " << num3.NextMonthIs() << endl;

num4.setTheMonth();

num4.DisplayTheMonth();

cout << "The next month is: " << num4.NextMonthIs() << endl;

system("pause"); //please pause the program.

}

/\*

The purpose:

This is default constructor

\*/

Month::Month(){

Themonth1 = 1;

}

/\*

The purpose:

This constructor, this function make variables

back from private class members

are allow to use anywhere else.

\*/

void Month::Month1(int month){

Themonth1 = month;

}

/\*

The purpose:

This function is set the month which mean

it will be able to ask user to enter the number

of the month.

\*/

void Month::setTheMonth()

{

int month;

cout << "please enter the month number" << endl;

cin >> month;

Month1(month);

}

/\*

The purpose:

it will return to the value that exsits

on the private and save it on the memory.

\*/

int Month::getTheMonth()

{

return Themonth1;

}

/\*

The purpose:

this function will prompt and display

the tree letters of the months.

\*/

void Month::DisplayTheMonth()

{

switch (getTheMonth())

{

case 1:

cout << "Jan" << endl;

break;

case 2:

cout << "Feb" << endl;

break;

case 3:

cout << "Mar" << endl;

break;

case 4:

cout << "Apr" << endl;

break;

case 5:

cout << "May" << endl;

break;

case 6:

cout << "Jun" << endl;

break;

case 7:

cout << "Jul" << endl;

break;

case 8:

cout << "Aug" << endl;

break;

case 9:

cout << "Sep" << endl;

break;

case 10:

cout << "Oct" << endl;

break;

case 11:

cout << "Nov" << endl;

break;

case 12:

cout << "Dec" << endl;

break;

default:// if more then 12, the program will exit.

cout << "Error" << endl;

exit(0);

}

}

/\*

The purpose:

this function will be able display

the next month. For example, if user

enterd 1 for jan, This funciton will say

next month is 2.

\*/

int Month::NextMonthIs()

{

if (getTheMonth() == 1)

return getTheMonth() + 1;

else

if ( getTheMonth() == 2)

return getTheMonth() + 1;

else

if (getTheMonth() == 3)

return getTheMonth() + 1;

else

if (getTheMonth() == 4)

return getTheMonth() + 1;

if (getTheMonth() == 5)

return getTheMonth() + 1;

else

if (getTheMonth()== 6)

return getTheMonth() + 1;

if (getTheMonth() == 7)

return getTheMonth() + 1;

else

if (getTheMonth() == 8)

return getTheMonth() + 1;

else

if (getTheMonth() == 9)

return getTheMonth() + 1;

else

if (getTheMonth() == 10)

return getTheMonth() + 1;

else

if (getTheMonth() == 11)

return getTheMonth() + 1;

else

if (getTheMonth() == 12)

return getTheMonth() - 11;

else

exit(0);

}

=============================The output=====================

please enter the month number

1

Jan

The next month is: 2

please enter the month number

8

Aug

The next month is: 9

please enter the month number

12

Dec

The next month is: 1

please enter the month number

7

Jul

The next month is: 8

Press any key to continue . . .