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/*
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Lab#3 – Day Calculation
1. declare the variables such as day, year, months, etc.
2. Then ask for the information
3. Calculate the number of months then printing out whether the given years are leap years or
not
*/
#include <iostream>
using namespace std;
int main()
{
       // Declare variables
       int years;
       int months;
       int days;
       int total_days;
       // prompt for information
       cout << "Enter the amount of the years ";</pre>
       cin >> years;
       cout << "Enter the amount of the months ";</pre>
       cin >> months;
       cout << "Please Enter the amount of days ";
       cin >> days;
       // calculate # days have passed
       if (months == 1)
               total_days = days;
       else if (months == 2)
               total_days = 31 + days;
       else if (months == 3)
               total_days = 59 + days;
       else if (months == 4)
               total_days = 90 + days;
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total_days = 120 + days;
       else if (months == 6)
               total_days = 151 + days;
       else if (months == 7)
               total_days = 181 + days;
       else if (months == 8)
               total_days = 212 + days;
       else if (months == 9)
               total_days = 243 + days;
       else if (months == 10)
               total_days = 273 + days;
       else if (months == 11)
               total_days = 304 + days;
       else
               total_days = 334 + days;
       if ((years % 400 == 0) || (years % 4 == 0) && !(years % 100 == 0) && (months > 2))
       {
               total_days += 1;
               cout<< "This is a leap year "<< endl;
       }
       else if ((years % 400 == 0) || (years % 4 == 0) && !(years % 100 == 0) && (months <=
2))
       {
               cout << "This is a leap year "<< endl;</pre>
       }
       else
       {
               cout << "This is not a leap year "<< endl;</pre>
       }
```

else if (months == 5)

/*
Enter the amount of the years 2000
Enter the amount of the months 4
Please Enter the amount of days 11
This is a leap year
The number of days passed is 102

Enter the amount of the years 1992 Enter the amount of the months 2 Please Enter the amount of days 4 This is a leap year The number of days passed is 35

Enter the amount of the years 2001 Enter the amount of the months 5 Please Enter the amount of days 27 This is not a leap year The number of days passed is 147 */