Колдонуучудан алынган сандын факториалын табуу учун колдонулган программа. Циклдин 3 турун колдонуп, экранга жыйынтыкты чыгарып берет.

using System;

class HW {

public static void Main() {

Console.WriteLine("Enter a number to find its factorial:");

int n = Int32.Parse(Console.ReadLine());

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* with for loop \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

int result = 1, i = 1;

for (; i <= n; i++) {

result \*= i;

}

Console.WriteLine("Factorial of {0} is {1} (done with for loop).", n, result);

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* with while loop \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

result = 1;

i = 1;

while (i <= n) {

result \*= i++;

}

Console.WriteLine("Factorial of {0} is {1} (done with while loop).", n, result);

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*with do...while loop \*\*\*\*\*\*\*\*\*\*\*\*\*/

result = 1;

i = 1;

do {

result \*= i++;

} while (i < n);

Console.WriteLine("Factorial of {0} is {1} (done with do...while loop).", n, result);

}

}

Колдонуучудан алынган датаны жуманын кайсы куну экенин аныктоочу программа.

using System;

class HW {

public static void Main() {

Console.WriteLine("Enter date in format DD.MM.YYYY:");

restart:

String[] date = new String[3];

date = Console.ReadLine().Split(".");

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* if...else \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

int day = Int32.Parse(date[0]), month = Int32.Parse(date[1]), year = Int32.Parse(date[2]);

if ((day < 1 || day > 31) || (month < 1 || month > 12)) {

Console.WriteLine("Please, enter valid date in format DD.MM.YYYY:");

goto restart;

} else if ((year % 4 == 0 && month == 2 && day > 29) || (year % 4 != 0 && month == 2 && day > 28)) {

Console.WriteLine("Please, enter valid date in format DD.MM.YYYY:");

goto restart;

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* switch...case \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

int sum = ((year-1)/4 \* 5 % 7) + (year-1)%4;

switch (month - 1) {

case 1: sum += 31; sum %= 7; break;

case 2: sum += 59; sum %= 7; break;

case 3: sum += 90; sum %= 7; break;

case 4: sum += 120; sum %= 7; break;

case 5: sum += 151; sum %= 7; break;

case 6: sum += 181; sum %= 7; break;

case 7: sum += 212; sum %= 7; break;

case 8: sum += 243; sum %= 7; break;

case 9: sum += 273; sum %= 7; break;

case 10: sum += 304; sum %= 7; break;

case 11: sum += 334; sum %= 7; break;

}

sum += day;

sum %= 7;

switch (sum) {

case 1: Console.WriteLine("Monday"); break;

case 2: Console.WriteLine("Tuesday"); break;

case 3: Console.WriteLine("Wednesday"); break;

case 4: Console.WriteLine("Thursday"); break;

case 5: Console.WriteLine("Friday"); break;

case 6: Console.WriteLine("Saturday"); break;

case 0: Console.WriteLine("Sunday"); break;

}

//Console.WriteLine("{0}.{1}.{2}", day, month, year);

}

}