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Computer Programming Lab

CEN-392

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Program 8

Code :-

#include <iostream>

using namespace std;

int Leap\_Year\_Count(int year, int month)

{

    if (month <= 2)

        year--;

    return year / 4 - year / 100 + year / 400;

}

int Month\_Days\_Count(int month)

{

    int Day\_In\_Month[12] = {31, 28, 31, 30, 31, 30,

                            31, 31, 30, 31, 30, 31};

    int Days = 0;

    for (int i = 0; i < month - 1; i++)

        Days += Day\_In\_Month[i];

    return Days;

}

int main()

{

    system("cls");

    cout << "\_\_\_\_\_Vicky\_Gupta\_20BCS070\_\_\_\_\_" << endl;

    cout << "Enter The Two Dates Sepearted By Special Characters : \n";

    char dates[100];

    gets(dates);

    int len = 0;

    while (dates[len] != '\0')

        len++;

    int day[2] = {0}, month[2] = {0}, year[2] = {0};

    int no\_of\_dates = 0, it = 0;

    while (no\_of\_dates < 2)

    {

        int multi = 10;

        while (dates[it] >= '0' && dates[it] <= '9')

        {

            day[no\_of\_dates] += (dates[it] - '0') \* multi;

            multi /= 10;

            it++;

        }

        it++;

        multi = 10;

        while (dates[it] >= '0' && dates[it] <= '9')

        {

            month[no\_of\_dates] += (dates[it] - '0') \* multi;

            multi /= 10;

            it++;

        }

        it++;

        multi = 1000;

        while (dates[it] >= '0' && dates[it] <= '9' && it < len)

        {

            year[no\_of\_dates] += (dates[it] - '0') \* multi;

            multi /= 10;

            it++;

        }

        it++;

        no\_of\_dates++;

    }

    long long Days\_Till\_first = (long long)year[0] \* 365;

    Days\_Till\_first += Month\_Days\_Count(month[0]);

    Days\_Till\_first += Leap\_Year\_Count(year[0], month[0]);

    Days\_Till\_first += day[0];

    long long Days\_Till\_Second = (long long)year[1] \* 365;

    Days\_Till\_Second += day[1];

    Days\_Till\_Second += Month\_Days\_Count(month[1]);

    Days\_Till\_Second += Leap\_Year\_Count(year[1], month[1]);

    long long Count\_Day = abs(Days\_Till\_first - Days\_Till\_Second);

    cout << "The No Of Days Between Given Dates : ";

    cout << Count\_Day << endl;

    return 0;

}

Output :-

Text

Description automatically generated