**CHECKING LEAP YEAR USING C PROGRAM**

**Definition of leap year:**

Rule 1: A year is called leap year if it is divisible by 400.

For example: 1600, 2000 etc leap year while 1500, 1700 are not leap year.

Rule 2: If year is not divisible by 400 as well as 100 but it is divisible by 4 then that year are also leap year.

For example:  2004, 2008, 1012 are leap year.

**Leap year logic or Algorithm of leap year or Condition for leap year:**

IF year MODULER 400 IS 0

 THEN leap\_year

ELSE IF year MODULER 100 IS 0

 THEN not\_leap\_year

ELSE IF year MODULER 4 IS 0

 THEN leap\_year

ELSE

 not\_leap\_year

Code 1:

1. **C program to determine leap year**

2. **C program to find leap year or not**

3. **Leap year calculation in c**

#include<stdio.h>

int main(){

    int year;

    printf("Enter any year: ");

    scanf("%d",&year);

    if(((year%4==0)&&(year%100!=0))||(year%400==0))

         printf("%d is a leap year",year);

    else

         printf("%d is not a leap year",year);

    return 0;

}

Sample output:

Enter any year: 2010

2010 is not a leap year

Code 2:

1. **Write a program to find leap year in c**

2. **How to find leap year in c code**

#include<stdio.h>

int main(){

    int year;

    int min\_year,max\_year;

    printf("Enter the lowest year: ");

    scanf("%d",&min\_year);

    printf("Enter the heighest year: ");

    scanf("%d",&max\_year);

    printf("Leap years in given range are: ");

    for(year = min\_year;year <= max\_year; year++){

         if(((year%4==0)&&(year%100!=0))||(year%400==0))

             printf("%d ",year);

    }

    return 0;

}

Sample output:

Enter the lowest year: 2000

Enter the highest year: 2011

Leap years in given range is: 2000 2004 2008