

Program to Find Leap Year

Aim:

To write a C program to check whether a given year is a leap year or not.

Algorithm:

- 1) Start the program.
- 2) Declare one variable year.
- 3) Get value for year.
- 4) Check if year modulus 4 equals to 0 then
 - a). Check if year modulus 100 equals to 0 then
 - i). Check if year modulus 400 equals to 0 then
 - I. Display "Leap Year".
 - ii). Else
 - I. Display "Not Leap Year".
 - b).Else
 - i). Display "Leap Year".
- 5) Else
 - a). Display "Not Leap Year".
- 6) Stop the program.

Program:

```
#include<stdio.h>
#include<conio.h>

void main()
{
    int yr;
    clrscr();
    printf("\nEnter Year: ");
    scanf("%d",&yr);
    if(yr%4==0)
    {
```

```
if(yr%100==0)
{
    if(yr%400==0)
        printf("\n%d is Leap Year",yr);
    else
        printf("\n%d is not a Leap Year",yr);
}
else
{
    printf("\n%d is Leap Year",yr);
}
}
else
{
    printf("\n%d is not a Leap Year",yr);
}
}
getch();
}
```

Result:

Thus the C program to check whether a given year is a leap year or not is executed successfully.