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| <u>EX 3</u> | PROGRAM TO FIND WHETHER THE GIVEN YEAR IS LEAP YEAR OR NOT |
| <u>DATE:</u> | |

AIM:

To write a C Program to find whether the given year is leap year or not.

ALGORITHM:

Step 1: Start

Step 2: Take integer variable year

Step 3: Check if year is divisible by 400 then DISPLAY "is a leap year"

Step 4: Check if year is not divisible by 100 AND divisible by 4 then DISPLAY "is a leap year"

Step 5: Otherwise, DISPLAY "is not a leap year"

Step 6: Stop

PROGRAM:

```
#include <stdio.h>
#include <conio.h>
void main()
{ int year;
  printf("Enter a year :\n"); scanf("%d",
    &year); if ((year % 400) == 0)
    printf("%d is a leap year \n",year);
  else if ((year % 100) != 0 && (year % 4) == 0)
    printf("%d is a leap year \n",year);
  else printf("%d is not a leap year \n",year);
}
```

OUTPUT:

```
Enter a year:
2000
2000 is a leap
year
Enter a year:
1900
1900 is not a leap year
```

RESULT:

Thus the C Program to find whether the given year is leap year or not has been executed successfully and the output was verified.