

# C PROGRAMMING LEARN WITH ME

## Program to Check Leap Year

```
#include <stdio.h>
int main() {
    int year;
    printf("Enter a year: ");
    scanf("%d", &year);

    // leap year if perfectly divisible by 400
    if (year % 400 == 0) {
        printf("%d is a leap year.", year);
    }
    // not a leap year if divisible by 100
    // but not divisible by 400
    else if (year % 100 == 0) {
        printf("%d is not a leap year.", year);
    }
    // leap year if not divisible by 100
    // but divisible by 4
    else if (year % 4 == 0) {
        printf("%d is a leap year.", year);
    }
    // all other years are not leap years
    else {
        printf("%d is not a leap year.", year);
    }

    return 0;
}
```

### Output 1

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

### Output 2

```
Enter a year: 2012
2012 is a leap year.
```

