

# Python Program to Check Leap Year

## Python Leap Year Program

An year is said to be leap year if it divisible by 4 and not divisible by 100, with an exception that it is divisible by 400.

In this tutorial, we will write a program to check if given year is leap year.

### Algorithm

Following is the algorithm that we shall use to check if given input year is leap year or not.

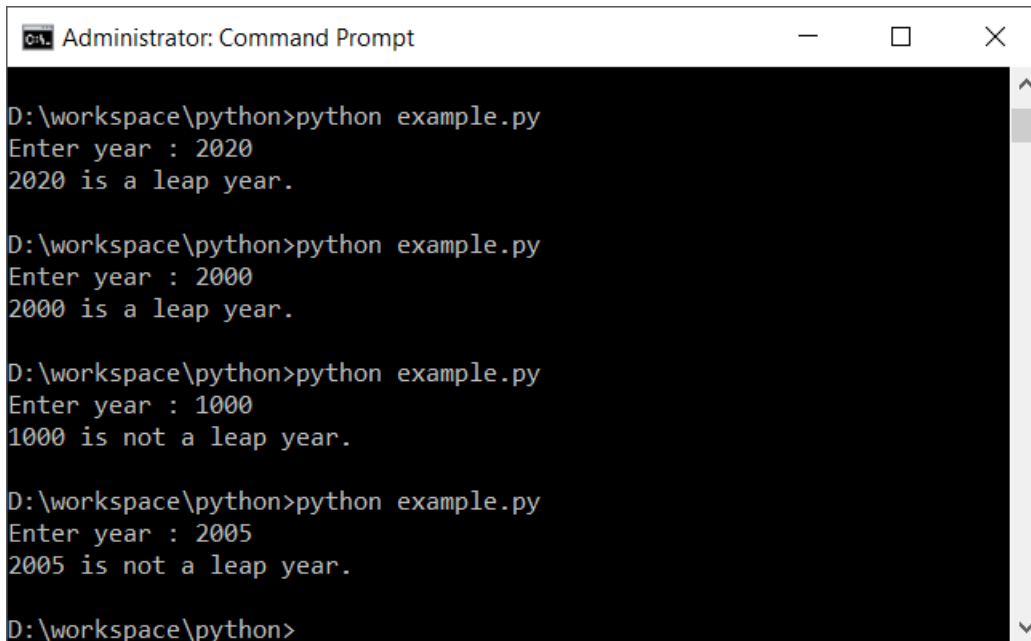
1. Read an integer from user, to **year** variable.
2. Check the condition if **year** is exactly divisible by 4 and 100, or the **year** is exactly divisible by 400.
3. If the above condition returns true, given **year** is leap year else it is not leap year.

### Python Program

```
year = int(input('Enter year : '))

if (year%4 == 0 and year%100 != 0) or (year%400 == 0) :
    print(year, "is a leap year.")
else :
    print(year, "is not a leap year.")
```

### Output



```
Administrator: Command Prompt

D:\workspace\python>python example.py
Enter year : 2020
2020 is a leap year.

D:\workspace\python>python example.py
Enter year : 2000
2000 is a leap year.

D:\workspace\python>python example.py
Enter year : 1000
1000 is not a leap year.

D:\workspace\python>python example.py
Enter year : 2005
2005 is not a leap year.

D:\workspace\python>
```

### Conclusion

In this [Python Tutorial](#), we learned how to check if given year is leap year or not.

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