

# PYTHON MINI PROJECT



**L** OVELY  
**P** ROFESSIONAL  
**U** NIVERSITY

**A project submitted to professor  
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# MY PROJECT

▶ Your task is to create a functionality in which when user will input a range of two dates. Then your module will find and print all years in the range of given dates those are leap years separately and rest of the year those are non-leap year.

▶ For example:

▶ Input data range in the format dd/mm/yy

▶ (12/01/200) to (13/12/2025)

▶ Leaps years are:

▶ 2000, 2004, 2008, 2012, 2016, 2020, 2024, 2028, 2032, 2036, 2040, 2044, 2048.

▶ Non leap years are:

▶ 2001, 2002, 2005, 2006, 2007-----

▶ (Student is free to decide the input and output layout for this mini project)

```

def leapYears(start, end):
    startDate = start.split('/')
    endDate = end.split('/')
    startYear = int(startDate[2])
    endYear = int(endDate[2])

    leapYear = []
    nonLeapYear = []
    for i in range(startYear, endYear+1):
        if (i % 400 == 0 or i%100 !=0) and i % 4 == 0:
            leapYear.append(i)
        else:
            nonLeapYear.append(i)
    print("Leap Years: ", end = "")
    for j in range(len(leapYear)):
        if j == len(leapYear)-1:
            print(leapYear[j], end = ".")
            print()
        else:
            print(leapYear[j], end=', ')
    print("Non Leap Years: ", end = "")
    for k in range(len(nonLeapYear)):
        if k == len(nonLeapYear)-1:
            print(nonLeapYear[k], end=".")
            print()
        else:
            print(nonLeapYear[k], end=', ')
start = input("Enter start date: ")
end = input("Enter end date: ")
leapYears(start, end)

```

## OUTPUT :-

Enter start date: 12/12/2010

Enter end date: 12/12/2022

Leap Years: 2012, 2016, 2020.

Non Leap Years: 2010, 2011, 2013, 2014, 2015, 2017, 2018, 2019, 2021, 2022.

PS C:\Users\Raghuveer Kumar> □

Enter start date: 18/11/1988

Enter end date: 16/12/1990

Leap Years: 1988.

Non Leap Years: 1989, 1990.

PS C:\Users\Raghuveer Kumar> □

Enter start date: 18/12/1700

Enter end date: 29/10/1715

Leap Years: 1704, 1708, 1712.

Non Leap Years: 1700, 1701, 1702, 1703, 1705, 1706, 1707, 1709, 1710, 1711, 1713, 1714, 1715.

PS C:\Users\Raghuveer Kumar> □