

```

#leap
year
Program
    year = int(input("enter the starting year: "))        # taking input from user
    for starting year
    year2 = int(input("enter the ending year: "))        # taking input from user
    for ending year
    s = []                                                # creating empty list
    b = []                                                # creating empty list
    for i in range(year,(year2)+1):                      # loop for starting year to
    ending year
        if i % 4 == 0:                                    # conditions for checking
        leap year or not
            if i % 100 != 0:
                s.append(i)                                # using append function to
        store value
                                                        # in the list

            elif i % 100 == 0:
                if i % 400 == 0:
                    s.append(i)

            else:
                b.append(i)
        else:
            b.append(i)

    print("leap year: ", s)                                # printing
    leap year
    print("Non leap year: " , b)                          # printing
    non- leap years

```

OUTPUT

enter the starting year: 2000

enter the ending year: 2050

leap year: [2000, 2004, 2008, 2012, 2016, 2020, 2024, 2028, 2032, 2036, 2040, 2044, 2048]

Non leap year: [2001, 2002, 2003, 2005, 2006, 2007, 2009, 2010, 2011, 2013, 2014, 2015, 2017, 2018, 2019, 2021, 2022, 2023, 2025, 2026, 2027, 2029, 2030, 2031, 2033, 2034, 2035, 2037, 2038, 2039, 2041, 2042, 2043, 2045, 2046, 2047, 2049, 2050]