27/03/2025 – Leap Year

1. WAP to check weather the given year is a leap year or not

```python
year=int(input("Enter the year: "))
if (year%100!=0 and year%4==0) or (year%400==0):
    print(year," is leap Year")
else:print(year," is not a leap year")
```

2. WAP to check weather the given year ia a leap year or nor using customized function

```python
def leap_or_not(year):
    return (year % 100 != 0 and year % 4 == 0) or (year % 400 == 0)

year=int(input("Enter a year: "))
flag=leap_or_not(year)
if flag:
    print(year,"is Leap year")
else:print(year,"is not a leap year")
```

3. WAP to print all the leap years of a given range

```python
def leap_or_not(year):
    return (year % 100 != 0 and year % 4 == 0) or (year % 400 == 0)
start=int(input("Enter the start year: "))
end=int(input("Enter the end year: "))
if start<end:
    print("Leap Years ")
    for i in range(start,end+1):
        flag=leap_or_not(i)
        if flag:
            print(i)
else:print("Enter a valid range")
```

4. WAP to print all the leap and non-leap years of a given range

```python
def leap_or_not(year):
    return (year % 100 != 0 and year % 4 == 0) or (year % 400 == 0)
start=int(input("Enter the start year: "))
end=int(input("Enter the end year: "))
if start<end:
    print("Leap Years ")
    for i in range(start,end+1):
        flag=leap_or_not(i)
        if flag:
            print(i)
    print("Non Leap Years ")
    for i in range(start,end+1):
        flag = leap_or_not(i)
        if not flag:
            print(i)
else:print("Enter a valid range")
```