Program 1

Aim: Display future leap years from current year to a final year entered by user.

Algorithm:

Step 1- Take an integer variable for current year and future year

Step 2- Assign values to the variable

Step 3- Check whether a year is divisible by 4 but not with 100 and print leap year.
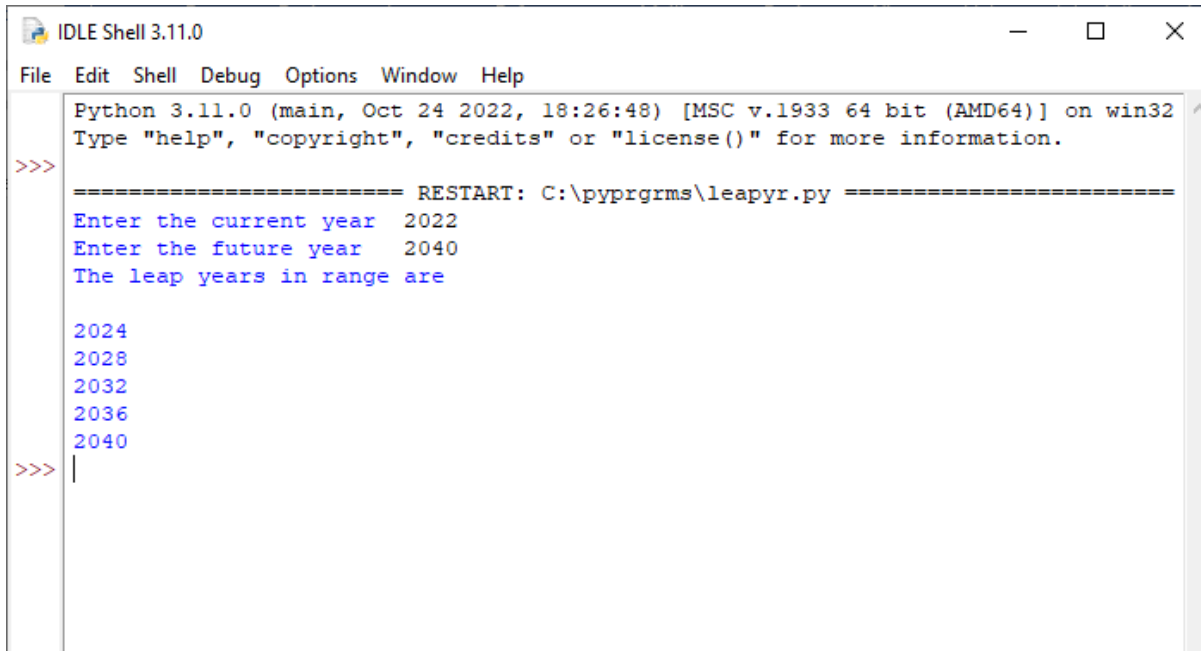
Step 4- Check if a year is divisible by 400

Step 5- Print leap years

Source Code:

```
year=int(input("Enter the current year\t"))
fut=int(input("Enter the future year\t"))
print("The leap years in range are\n" )
for year in range(year,fut+1):
    if year%4==0 and year%100!=0 or year%400==0:
        print(year)
```

Output

```
IDLE Shell 3.11.0                                              —    □    ×

File  Edit  Shell  Debug  Options  Window  Help

    Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    ======================= RESTART: C:\pyprgrms\leapyr.py =======================
    Enter the current year  2022
    Enter the future year   2040
    The leap years in range are

    2024
    2028
    2032
    2036
    2040
>>> |
```