

APPENDIX 1

LEAPYEAR CALCULATOR

INT108 PROJECT

BY

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APPENDIX 2

STUDENT DECLARATION

This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that if any part of the report is found to be copied, we shall take full responsibility for it.

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LEAPYEAR CALCULATOR

AIM:

Your task 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 years those are non-leap separately.

Coding format :-

INPUT:-

```
#leap year Program
year1= 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(year1,(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)
```

OUTPUT :

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
enter the starting year: 1950
enter the ending year: 2022
leap year: [1952, 1956, 1960, 1964, 1968, 1972, 1976, 1980, 1984, 1988, 1992, 1996, 2000, 2004, 2008, 2012, 2016, 2020]
Non leap year: [1950, 1951, 1953, 1954, 1955, 1957, 1958, 1959, 1961, 1962, 1963, 1965, 1966, 1967, 1969, 1970, 1971, 1973, 1974, 1975, 1977, 1978, 1979, 1981,
1982, 1983, 1985, 1986, 1987, 1989, 1990, 1991, 1993, 1994, 1995, 1997, 1998, 1999, 2001, 2002, 2003, 2005, 2006, 2007, 2009, 2010, 2011, 2013, 2014, 2015, 201
7, 2018, 2019, 2021, 2022]
PS C:\Users\write\OneDrive\Desktop\website3.0\loops> []
```