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# INT-108

(Python Mini Project)

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*Python program to print all years in the range of given dates those are leap years separately and the rest of the years are which are non-leap years separately.*

```
#Leap Year Program
```

```
#Taking input from user for starting year
```

```
year = int(input("Enter the Starting Year: "))
```

```
# taking input from user for ending year
```

```
year2 = int(input("Enter the Ending Year: "))
```

```
# creating empty list
```

```
s = []
```

```
# creating empty list
```

```
b = []
```

```
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  
Lists
```

```
        elif i % 100 == 0:
```

```
            if i % 400 == 0:
```

```
                s.append(i)
```

```
            else:
```

```
                b.append(i)
```

```
        else:
```

```
            b.append(i)
```

```
# printing leap year
```

```
print("Leap Years: ",end="")
```

```
for x in range(len(s)):          #Converting List of Leap-Years into form of  
output by traversing it
```

```
    print(s[x],end=" ")
```

```
print("\n")
```

```
# printing non leap year
```

```
print(" Non Leap Years: ",end="")
```

```
for x in range(len(b)):          #Converting List of Non-Leap-Years into form  
of output by traversing it
```

```
    print(b[x],end=" ")
```

## Snipped of Code in IDLE:-

```
INT_Mini_Project.py - C:\Users\Devi\Desktop\INT_Mini_Project.py (3.10.7)
File Edit Format Run Options Window Help

#Leap Year Program

#Taking input from user for starting year
year = int(input("Enter the Starting Year: "))
# taking input from user for ending year
year2 = int(input("Enter the Ending Year: "))

# creating empty list
s = []
# creating empty list
b = []

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

# printing leap year
print("Leap Years: ",end="")
for x in range(len(s)):                #Converting List of Leap-Years into form of output by traversing it
    print(s[x],end=" ")
print("\n")

# printing non leap year
print(" Non Leap Years: ",end="")
for x in range(len(b)):                #Converting List of Non-Leap-Years into form of output by traversing it
    print(b[x],end=" ")
```