

Name: Badal Prabhakar Wanjari  
Branch: Computer Technology  
Section: B  
Semester: 3<sup>rd</sup>  
Roll No. 140  
Reg. No. 20011045  
Date of submission: 28/10/2021

---

## Practical-2

Aim: - Write a program using conditional structure if-else, if-elif *etc.*

1. Python Program to Check if a person whose age is received, is a voter or not.
2. Python Program to Check Leap Year/Odd-even number.

### 1. Python Program to Check if a person whose age is received, is a voter or not.

Algorithm:

**step 1** – START.

**step 2** – get values age from user.

**step 3** – check. If age is greater than equal to 18 then Display “Person is voter”.

**step 4** – else print “Person is not voter”.

**step 5** – STOP

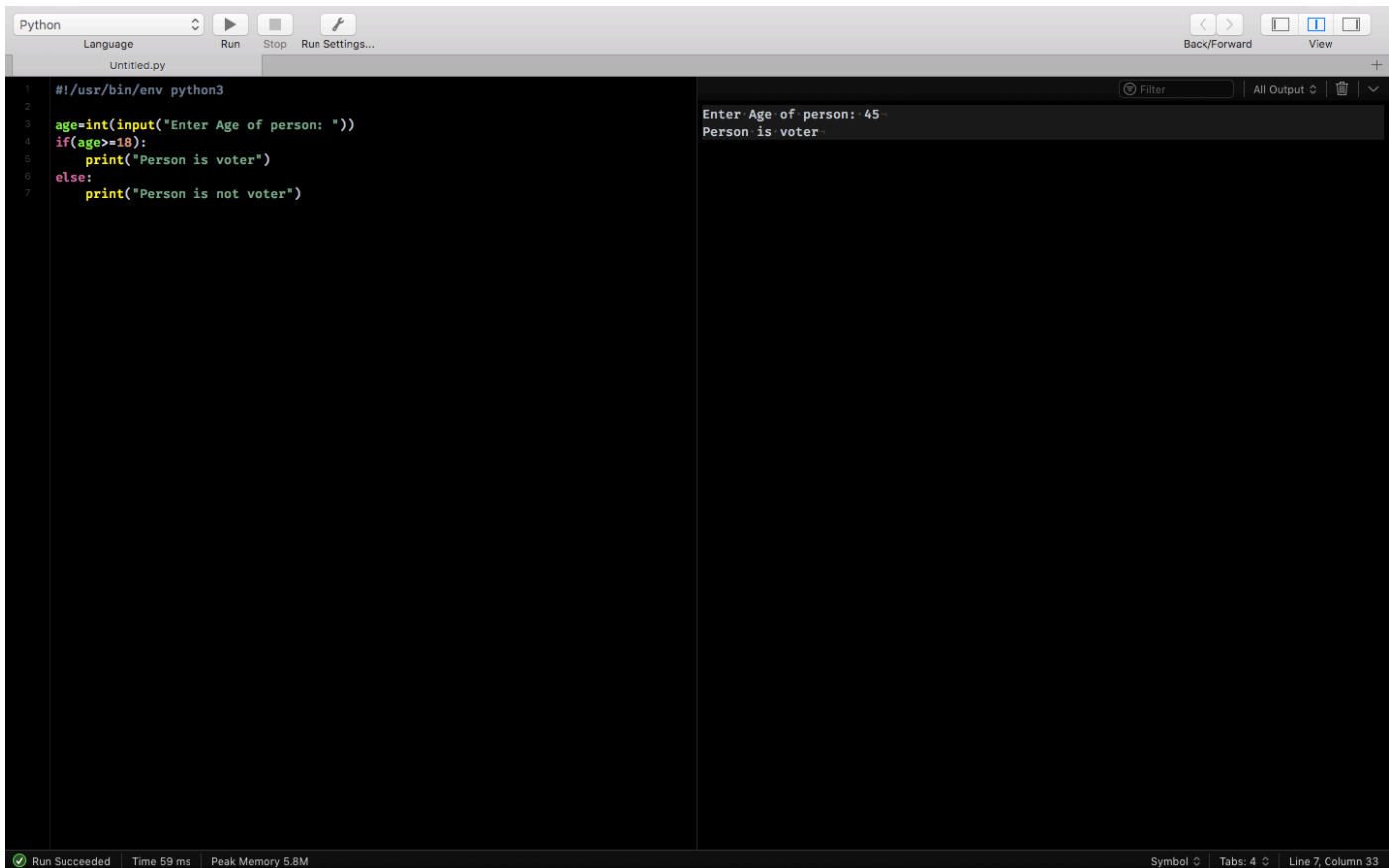
Program:

```
age=int(input("Enter Age of person: "))
if(age>=18):
    print("Person is voter")
else:
    print("Person is not voter")
```

Output:

```
Enter Age of person: 45
Person is voter
```

Screenshot:



The screenshot shows a Python IDE with a dark theme. The editor window displays a Python script for checking if a person is a voter based on their age. The script prompts the user to enter their age, and if the age is 18 or greater, it prints 'Person is voter', otherwise it prints 'Person is not voter'. The output window on the right shows the execution results: 'Enter Age of person: 45' and 'Person is voter'. The status bar at the bottom indicates 'Run Succeeded', 'Time 59 ms', and 'Peak Memory 5.8M'.

```
1 #!/usr/bin/env python3
2
3 age=int(input("Enter Age of person: "))
4 if(age>=18):
5     print("Person is voter")
6 else:
7     print("Person is not voter")
```

Enter Age of person: 45  
Person is voter

Run Succeeded | Time 59 ms | Peak Memory 5.8M | Symbol | Tabs: 4 | Line 7, Column 33

## 2. Python Program to Check Leap Year.

Algorithm:

**step 1** – START.

**step 2** – get values year from user.

**step 3** – check. If  $\text{year} \% 400 == 0$  then Display “year is a leap year”

**step 4** – If condition is false then check. If  $\text{year} \% 100 != 0$  and  $\text{year} \% 4 == 0$  then Display “year is a leap year”

**step 5** – If above both conditions false then Display “Display “year is not leap year”.

**step 6** – STOP

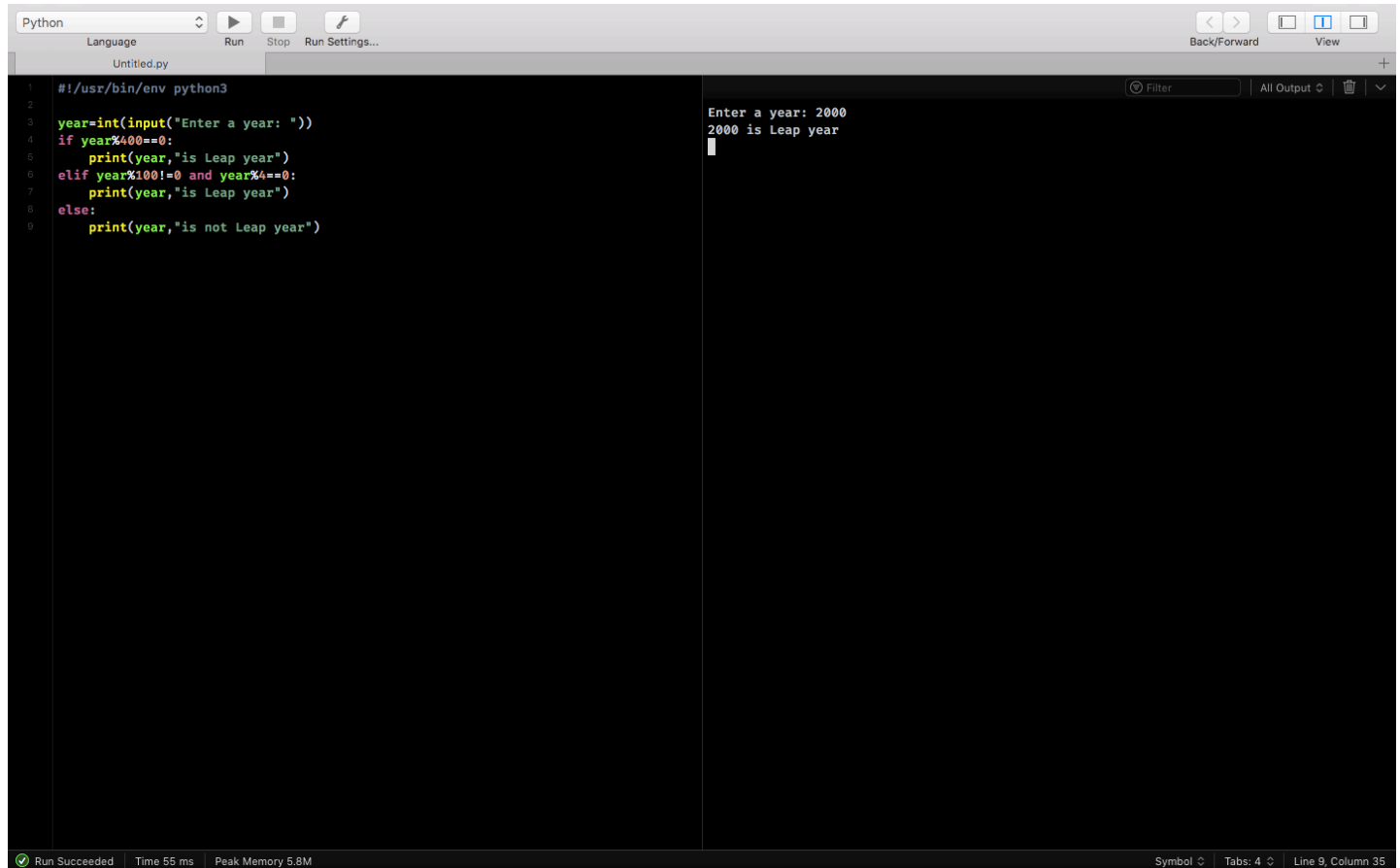
Program:

```
year=int(input("Enter a year: "))
if year%400==0:
    print(year,"is Leap year")
elif year%100!=0 and year%4==0:
    print(year,"is Leap year")
else:
    print(year,"is not Leap year")
```

Output:

```
Enter a year: 2000
2000 is Leap year
```

Screenshot:



The screenshot shows a Python IDE window titled 'Untitled.py'. The code in the editor is as follows:

```
1 #!/usr/bin/env python3
2
3 year=int(input("Enter a year: "))
4 if year%400==0:
5     print(year,"is Leap year")
6 elif year%100!=0 and year%4==0:
7     print(year,"is Leap year")
8 else:
9     print(year,"is not Leap year")
```

The output pane on the right displays the execution results:

```
Enter a year: 2000
2000 is Leap year
```

The status bar at the bottom indicates 'Run Succeeded', 'Time 55 ms', and 'Peak Memory 5.8M'. The bottom right corner shows 'Symbol', 'Tabs: 4', and 'Line 9, Column 35'.

Or [Python Program to Check Odd-even number](#)

Algorithm:

- step 1** – START.
- step 2** – get value of “num” from user.
- step 3** – check. If  $\text{num} \% 2 == 0$  then Display “Even number”
- step 4** – If above conditions false then Display “Odd number”.
- step 5** – STOP

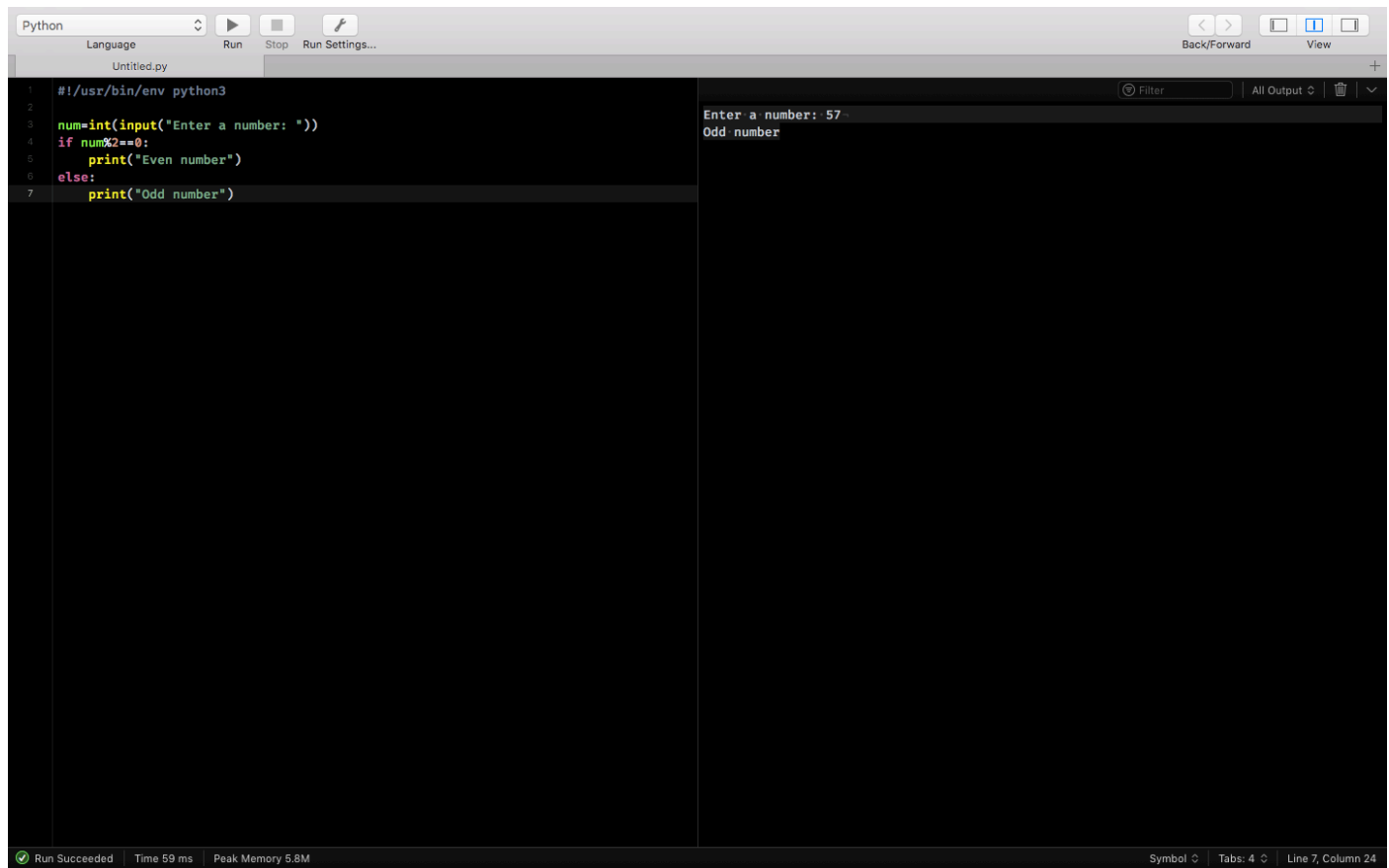
Program:

```
num=int(input("Enter a number: "))
if num%2==0:
    print("Even number")
else:
    print("Odd number")
```

Output:

```
Enter a number: 57
Odd number
```

Screenshot:



Result: I have studied *if else* and *if-elif* statements in python and completed practical-2.