

E:\lab3.py

```
1 #lab 3
2
3
4 year = int(input("Enter a year: "))
5
6 if year % 4 == 0:
7     if year % 100 == 0:
8         if year % 400 == 0:
9             print(f"{year} is a leap year.")
10        else:
11            print(f"{year} is not a leap year.")
12    else:
13        print(f"{year} is a leap year.")
14 else:
15     print(f"{year} is not a leap year.")
16
17 #2
18
19
20 num1 = float(input("Enter the first number: "))
21 num2 = float(input("Enter the second number: "))
22 num3 = float(input("Enter the third number: "))
23
24
25 if num1 >= num2:
26     if num1 >= num3:
27         largest = num1
28     else:
29         largest = num3
30 else:
31     if num2 >= num3:
32         largest = num2
33     else:
34         largest = num3
35
36 # Output the result
37 print(f"The largest number is: {largest}")
38
39
40
41 #3
42
43
44 num = float(input("Enter a number: "))
45
46
47 if num > 0:
48     print("The number is positive.")
49 elif num < 0:
50     print("The number is negative.")
51 else:
```

```
52 |     print("The number is zero.")  
53 |
```