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Started on	Wednesday, 6 March 2024, 10:20 AM
State	Finished
Completed on	Wednesday, 6 March 2024, 11:06 AM
Time taken	46 mins
Marks	5.00/5.00
Grade	50.00 out of 50.00 (100 %)
Name	AVULA SNEYA DRITI 2022-CSD-A

```
Question 1
Correct
Mark 1.00 out of 1.00
```

Write a program to calculate and print the Electricity bill where the unit consumed by the user is given from test case. It prints the total amount the customer has to pay. The charge are as follows:

Unit Charge / Unit **Upto 199** @1.20 200 and above but less than 400 @1.50 400 and above but less than 600 @1.80 600 and above @2.00

If bill exceeds Rs.400 then a surcharge of 15% will be charged and the minimum bill should be of Rs.100/-

Sample Test Cases

Test Case 1

Input

50

Output

100.00

Test Case 2

Input

300

Output

517.50

For example:

Input	Result
100.00	120.00

```
cost=float(input())
 2 •
    if(cost<100):
 3
        print("100.00")
    elif(cost>=100 and cost<=199):</pre>
 4
 5
        print("%0.2f"%(cost*1.20))
 6
    elif(cost>=200 and cost<400):</pre>
        if(cost==300):
 7、
 8
             cost=cost*1.5
 9
             cost+=cost*0.15
10
             print("%0.2f"%(cost))
11 •
        else:
             print("%0.2f"%(cost*1.50))
12
13 •
    else:
14 •
        if(cost>=400 and cost<600):
15
             cost=cost*1.8
16
             cost + = cost * (15/100)
17 •
        else:
             cost*=2.00
18
19
             cost + = cost * (15/100)
20
        print("%0.2f"%(cost))
```

	Input	Expected	Got	
~	50	100.00	100.00	~
~	100.00	120.00	120.00	~
~	500	1035.00	1035.00	~
~	700	1610.00	1610.00	~

Passed all tests! 🗸

Correct
Marks for this submission: 1.00/1.00.

```
Question 2
Correct
Mark 1.00 out of 1.00
```

A triangle can be classified based on the lengths of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is a different length. If all of the sides have different lengths then the triangle is scalene.

Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.

Sample Input 1

60

60

60

Sample Output 1

That's a equilateral triangle

Sample Input 2

40

40

80

Sample Output 2

That's a isosceles triangle

Sample Input 3

50

60

70

Sample Output 3

That's a scalene triangle

For example:

Input	Result
60 60 60	That's a equilateral triangle
40 40 80	That's a isosceles triangle

	Input	Expected	Got	
~	60 60 60	That's a equilateral triangle	That's a equilateral triangle	~
~	40 40 80	That's a isosceles triangle	That's a isosceles triangle	~
~	50 60 70	That's a scalene triangle	That's a scalene triangle	~
~	50 50 80	That's a isosceles triangle	That's a isosceles triangle	~
~	10 10 10	That's a equilateral triangle	That's a equilateral triangle	~

Passed all tests! ✔

Correct
Marks for this submission: 1.00/1.00.

```
Question 3
Correct
Mark 1.00 out of 1.00
```

The length of a month varies from 28 to 31 days. In this exercise you will create a program that reads the name of a month from the user as a string. Then your program should display the number of days in that month. Display "28 or 29 days" for February so that leap years are addressed.

Sample Input 1

February

Sample Output 1

February has 28 or 29 days in it.

Sample Input 2

March

Sample Output 2

March has 31 days in it.

Sample Input 3

April

Sample Output 3

April has 30 days in it.

For example:

Input	Result							
February	February	has	28	or	29	days	in	it.

```
m=input()
2 v if(m=="January"):
3
        print("January has 31 days in it.")
4
    elif(m=="February"):
        print("February has 28 or 29 days in it.")
5
    elif(m=="March"):
6
7
        print("March has 31 days in it.")
   elif(m=="April"):
8 •
9
        print("April has 30 days in it.")
10 v elif(m=="May"):
        print("May has 31 days in it.")
11
12 v elif(m=="June"):
13
        print("June has 30 days in it.")
14
   elif(m=="July"):
15
        print("July has 31 days in it.")
16 🔻
   elif(m=="August"):
        print("August has 31 days in it.")
17
18 v elif(m=="September"):
        print("September has 30 days in it.")
19
20 velif(m=="October"):
21
        print("October has 31 days in it.")
22 velif(m=="November"):
```

	Input	Expected	Got	
~	February	February has 28 or 29 days in it.	February has 28 or 29 days in it.	~

	Input	Expected	Got	
~	March	March has 31 days in it.	March has 31 days in it.	~
~	April	April has 30 days in it.	April has 30 days in it.	~
~	May	May has 31 days in it.	May has 31 days in it.	~

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

```
Question 4
Correct
```

Mark 1.00 out of 1.00

Most years have 365 days. However, the time required for the Earth to orbit the Sun is actually slightly more than that. As a result, an extra day, February 29, is included in some years to correct for this difference. Such years are referred to as leap years. The rules for determining whether or not a year is a leap year follow:

- Any year that is divisible by 400 is a leap year.
- Of the remaining years, any year that is divisible by 100 is not a leap year.
- Of the remaining years, any year that is divisible by 4 is a leap year.
- · All other years are not leap years.

Write a program that reads a year from the user and displays a message indicating whether or not it is a leap year.

Sample Input 1

1900

Sample Output 1

1900 is not a leap year.

Sample Input 2

2000

Sample Output 2

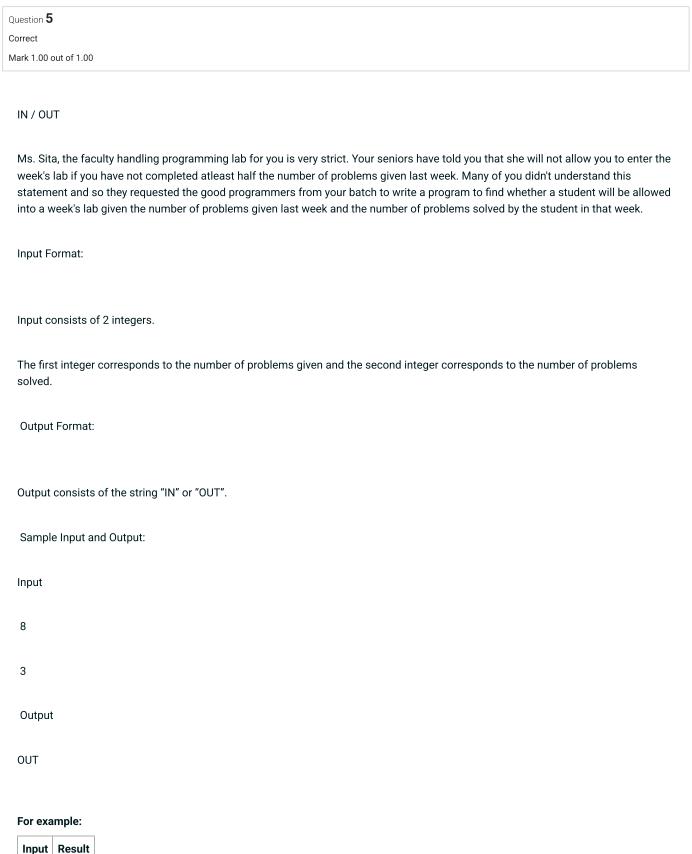
2000 is a leap year.

	Input	Expected	Got	
~	1900	1900 is not a leap year.	1900 is not a leap year.	~
~	2000	2000 is a leap year.	2000 is a leap year.	~
~	2100	2100 is not a leap year.	2100 is not a leap year.	~
~	2400	2400 is a leap year.	2400 is a leap year.	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.



Input	Result
8	OUT
3	

Answer: (penalty regime: 0 %)

```
1  a=int(input())
2  b=int(input())
```

3 | s=a//2

	Input	Expected	Got	
~	8	OUT	OUT	~
~	8	IN	IN	~
~	20 9	OUT	OUT	~
~	50 31	IN	IN	~

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

■ Week-03_MCQ

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WEEK-03-Extra ►

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