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Started on	Friday, 26 April 2024, 9:32 PM
State	Finished
Completed on	Friday, 26 April 2024, 9:47 PM
Time taken	15 mins 27 secs
Marks	5.00/5.00
Grade	50.00 out of 50.00 (100 %)
Name	JUNIDE CHRIS A 2022-CSD-A

```
Question 1
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.	~

Correct

Marks for this submission: 1.00/1.00.

Question **2**Correct

Mark 1.00 out of 1.00

Write a program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths >= 65

Marks in Physics >= 55

Marks in Chemistry >= 50

Or

Total in all three subjects >= 180

Sample Test Cases

Test Case 1

Input

70

60

80

Output

The candidate is eligible

Test Case 2

Input

50

80

80

Output

The candidate is eligible

Test Case 3

Input

50

60

40

Output

The candidate is not eligible

For example:

Input	Result
70	The candidate is eligible
60	
80	

```
maths = int(input())
physics = int(input())
chemistry = int(input())
total = maths + physics + chemistry
if maths >= 65 and physics >= 55 and chemistry >= 50:
```

```
print("The candidate is eligible")
elif total >= 180:
    print("The candidate is eligible")
else:
print("The candidate is eligible")
else:
print("The candidate is eligible")

print("The candidate is not eligible")
```

	Input	Expected	Got	
•	70 60 80	The candidate is eligible	The candidate is eligible	~
~	50 80 80	The candidate is eligible	The candidate is eligible	~
~	50 60 40	The candidate is not eligible	The candidate is not eligible	~
•	20 10 25	The candidate is not eligible	The candidate is not eligible	~

Correct

Marks for this submission: 1.00/1.00.

10

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

In the 1800s, the battle of Troy was led by Hercules. He was a superstitious person. He believed that his crew can win the battle only if the total count of the weapons in hand is in multiple of 3 and the soldiers are in an even number of count. Given the total number of weapons and the soldier's count, Find whether the battle can be won or not according to Hercules's belief. If the battle can be won print True otherwise print False.

Input format:

Line 1 has the total number of weapons

Line 2 has the total number of Soldiers.

Output Format:

If the battle can be won print True otherwise print False.

Sample Input:

32

43

Sample Output:

False

For example:

Input	Result
32	False
43	

```
meapons = int(input())
soldiers = int(input())
if weapons % 3 == 0 and soldiers % 2 == 0:
    print(True)
else:
    print(False)
```

	Input	Expected	Got	
~	32	False	False	~
	43			

	Input	Expected	Got	
~	273 7890	True	True	~
~	800 4590	False	False	~
~	6789 32996	True	True	~

Correct

Marks for this submission: 1.00/1.00.

```
Question 4

Correct

Mark 1.00 out of 1.00
```

In this exercise you will create a program that reads a letter of the alphabet from the user. If the user enters a, e, i, o or u then your program should display a message indicating that the entered letter is a vowel. If the user enters y then your program should display a message indicating that sometimes y is a vowel, and sometimes y is a consonant. Otherwise your program should display a message indicating that the letter is a consonant.

```
Sample Input 1
i
Sample Output 1
It's a vowel.
Sample Input 2
y
Sample Output 2
Sometimes it's a vowel... Sometimes it's a consonant.
Sample Input3
c
Sample Output 3
It's a consonant.
```

For example:

Input	Result
У	Sometimes it's a vowel Sometimes it's a consonant.
С	It's a consonant.

```
| n=input()
if(n=='a' or n=='e' or n=='i' or n=='u'):
    print("It's a vowel.")
elif(n=='y'):
    print("Sometimes it's a vowel... Sometimes it's a consonant.")
else:
    print("It's a consonant.")
```

	Input	Expected	Got	
~	i	It's a vowel.	It's a vowel.	~
~	у	Sometimes it's a vowel Sometimes it's a consonant.	Sometimes it's a vowel Sometimes it's a consonant.	~
~	С	It's a consonant.	It's a consonant.	~
~	е	It's a vowel.	It's a vowel.	~
~	r	It's a consonant.	It's a consonant.	~

Correct

Marks for this submission: 1.00/1.00.

```
Question 5
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	

```
units=float(input())
    sum=0
 2
 3 v if int(units)<199:
        sum+=units*1.20
 5 v elif units>=200 and units<400:
 6
        sum+=units*1.50
 7
    elif units>=400 and units<600:
 8 •
 9
        sum+=units*1.80
10
11 •
    elif units>=600:
12
        sum+=units*2.00
13
14 •
    if sum>400:
        sum=sum+(sum*0.15)
15
16
        print("{0:.2f}".format(float(sum)))
17
18 v elif sum<100:
19
        print("100.00")
20 🔻
    else:
        print("{0:.2f}".format(float(sum)))
21
```

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

Correct

Marks for this submission: 1.00/1.00.

■ Week-03_MCQ

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