Started on	Friday, 17 May 2024, 1:36 PM
State	Finished
Completed on	Friday, 17 May 2024, 8:27 PM
Time taken	6 hours 50 mins
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	NAVEEN RAJ B 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

Answer: (penalty regime: 0 %)

```
 1  units=float(input())
 2  sum=0
 3  if int(units)<199:
 4      sum+=units*1.20
 5  elif units>=200 and units<400:
 6      sum+=units*1.50
 7
 8  elif units>=400 and units<600:
 9      sum+=units*1.80
10
11  elif units>=600:
12      sum+=units*2.00
13
14  if sum>400:
15      sum=sum+(sum*0.15)
16      print("{0:.2f}".format(float(sum)))
17
18  elif sum<100:
19      print("100.00")
20  else:
21      print("{0:.2f}".format(float(sum)))
22
```

	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

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
y	Sometimes it's a vowel... Sometimes it's a consonant.
c	It's a consonant.

Answer: (penalty regime: 0 %)

```
1  b=input()
2  if b=="a" or b=="e" or b=="i" or b=="o" or b=="u":
3      print("It's a vowel.")
4  elif b=="y":
5      print("Sometimes it's a vowel... Sometimes it's a consonant.")
6  else:
7      print("It's a consonant.")
```

	Input	Expected	Got	
✔	i	It's a vowel.	It's a vowel.	✔
✔	y	Sometimes it's a vowel... Sometimes it's a consonant.	Sometimes it's a vowel... Sometimes it's a consonant.	✔
✔	c	It's a consonant.	It's a consonant.	✔
✔	e	It's a vowel.	It's a vowel.	✔
✔	r	It's a consonant.	It's a consonant.	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Write a Python program that accepts three parameters. The first parameter is an integer. The second is one of the following mathematical operators: +, -, /, or *. The third parameter will also be an integer.

The function should perform a calculation and return the results. For example, if the function is passed 6 and 4, it should return 24.

Sample Input Format:

11

+

14

Sample Output Format:

25

Answer: (penalty regime: 0 %)

```python
1  a = int(input())
2  s = input()
3  b = int(input())
4
5  if(s == '+'):
6      print(a + b)
7  elif(s == '-'):
8      print(a - b)
9  elif(s == '*'):
10     print(a * b)
11 else:
12     print(a / b)
```

	Input	Expected	Got	
✔	11 + 14	25	25	✔
✔	45 - 50	-5	-5	✔
✔	12 * 100	1200	1200	✔
✔	18 / 2	9.0	9.0	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Write a program that reads an integer from the user. Then your program should display a message indicating whether the integer is even or odd.

Sample Input1:

5

Sample Output1:

5 is odd.

Sample Input2:

10

Sample Output2:

10 is even.

For example:

Input	Result
5	5 is odd.

Answer: (penalty regime: 0 %)

```
1   n = int(input())
2 ▾ if(n % 2 == 0):
3       print("%d is even."%(n))
4 ▾ else:
5       print("%d is odd."%(n))
6
```

	Input	Expected	Got	
✔	5	5 is odd.	5 is odd.	✔
✔	10	10 is even.	10 is even.	✔
✔	20	20 is even.	20 is even.	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

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 60 80	The candidate is eligible

Answer: (penalty regime: 0 %)

```
1  a=int(input())
2  b=int(input())
3  c=int(input())
4  if a>=65 and b>=55 and c>=50 or a+b+c>=180:
5      print("The candidate is eligible")
```

```
6 ▾ else:
7 │     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	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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