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<b>Started on</b>	Wednesday, 28 February 2024, 12:12 PM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 28 February 2024, 7:15 PM
<b>Time taken</b>	7 hours 3 mins
<b>Marks</b>	5.00/5.00
<b>Grade</b>	<b>50.00</b> out of 50.00 ( <b>100%</b> )
<b>Name</b>	<a href="#">AKSAYAA S V 2022-CSD-A</a>

Question 1

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

**Answer:** (penalty regime: 0 %)

```

1 w=int(input())
2 s=int(input())
3 if w%3==0 and s%2==0:
4     print("True")
5 else:
6     print("False")
7
8
9

```

	Input	Expected	Got	
✓	32 43	False	False	✓
✓	273 7890	True	True	✓
✓	800 4590	False	False	✓
✓	6789 32996	True	True	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

## Question 2

Correct

Mark 1.00 out of 1.00

Pretend that you have just opened a new savings account that earns 4 percent interest per year. The interest that you earn is paid at the end of the year, and is added to the balance of the savings account. Write a program that begins by reading the amount of money deposited into the account from the user. Then your program should compute and display the amount in the savings account after 1, 2, and 3 years. Display each amount so that it is rounded to 2 decimal places.

Sample Input:

10000

Sample Output:

Balance as of end of Year 1: \$10400.00.

Balance as of end of Year 2: \$10816.00.

Balance as of end of Year 3: \$11248.64.

**Answer:** (penalty regime: 0 %)

```
1 initial_deposit = float(input())
2 annual_interest_rate = 0.04
3 balance_year_1 = initial_deposit * (1
4 balance_year_2 = balance_year_1 * (1 +
5 balance_year_3 = balance_year_2 * (1 +
6
7 print("Balance as of end of Year 1: ${
8 print("Balance as of end of Year 2: ${
9 print("Balance as of end of Year 3: ${
10
```

	Input	Expected	Got	
✓	10000	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. Balance as of end of Year 3: \$11248.64.	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. Balance as of end of Year 3: \$11248.64.	✓
✓	20000	Balance as of end of Year 1: \$20800.00. Balance as of end of Year 2: \$21632.00. Balance as of end of Year 3: \$22497.28.	Balance as of end of Year 1: \$20800.00. Balance as of end of Year 2: \$21632.00. Balance as of end of Year 3: \$22497.28.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

A team from the Rotract club had planned to conduct a rally to create awareness among the Coimbatore people to donate blood. They conducted the rally successfully. Many of the Coimbatore people realized it and came forward to donate their blood to nearby blood banks. The eligibility criteria for donating blood are people should be above or equal to 18 and his/ her weight should be above 40. There was a huge crowd and staff in the blood bank found it difficult to manage the crowd. So they decided to keep a system and ask the people to enter their age and weight in the system. If a person is eligible he/she will be allowed inside.

Write a program and feed it to the system to find whether a person is eligible or not.

Input Format:

Input consists of two integers that correspond to the age and weight of a person respectively.

Output Format:

Display True(IF ELIGIBLE)

Display False (if not eligible)

Sample Input

19

45

Sample Output

True

**Answer:** (penalty regime: 0 %)

```
1 a=int(input())
2 w=int(input())
3 if a>=18 and w>40:
4     print("True")
5 else:
6     print("False")
```

	Input	Expected	Got	
✓	19 45	True	True	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

An online retailer sells two products: widgets and gizmos. Each widget weighs 75 grams. Each gizmo weighs 112 grams. Write a program that reads the number of widgets and the number of gizmos from the user. Then your program should compute and display the total weight of the parts.

Sample Input

10

20

Sample Output

The total weight of all these widgets and gizmos is 2990 grams.

**For example:**

Input	Result
10 20	The total weight of all these widgets and gizmos is 2990 grams.

**Answer:** (penalty regime: 0 %)

```
1 num_widgets = int(input())
2 num_gizmos = int(input())
3 total_weight = num_widgets * 75 + num_g
4 print("The total weight of all these wi
5
```

	Input	Expected	Got	
✓	10 20	The total weight of all these widgets and gizmos is 2990 grams.	The total weight of all these widgets and gizmos is 2990 grams.	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

Write a python program that takes a integer between 0 and 15 as input and displays the number of '1' s in its binary form.(Hint:use python bitwise operator.

Sample Input

3

Sample Output:

2

Explanation:

The binary representation of 3 is 011, hence there are 2 ones in it. so the output is 2.

**Answer:** (penalty regime: 0 %)

```
1 num = int(input())
2 count = 0
3 while num:
4     count += num & 1
5     num >>= 1
6 print(count)
7
```

	Input	Expected	Got	
✓	3	2	2	✓
✓	5	2	2	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

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