Interactive Coding Exercises

Exercise 1 - Odd or Even

Overview My Submissions/Test Runs

Instructions

Write a program that works out whether if a given number is an odd or even number.

Even numbers can be divided by 2 with no remainder.

e.g. 86 is **even** because 86 ÷ 2 = 43

43 does not have any decimal places. Therefore the division is clean.

e.g. 59 is **odd** because 59 ÷ 2 = 29.5

29.5 is not a whole number, it has decimal places. Therefore there is a remainder of 0.5, so the division is not clean.

The **modulo** is written as a percentage sign (%) in Python. It gives you the remainder after a division.

e.g.

`6 ÷ 2 = 3` with no remainder.

therefore: `6 % 2 = 0`

5 ÷ 2 = 2 x **2** + 1, remainder is 1.

therefore: `5 % 2 = 1`

14 ÷ 4 = 3 x **4** + 2, remainder is 2.

therefore: `14 % 4 = 2`

Warning your output should match the Example Output format exactly, even the positions of the commas and full stops.

Example Input 1

```
43
```

Example Output 1

```
This is an odd number.
```

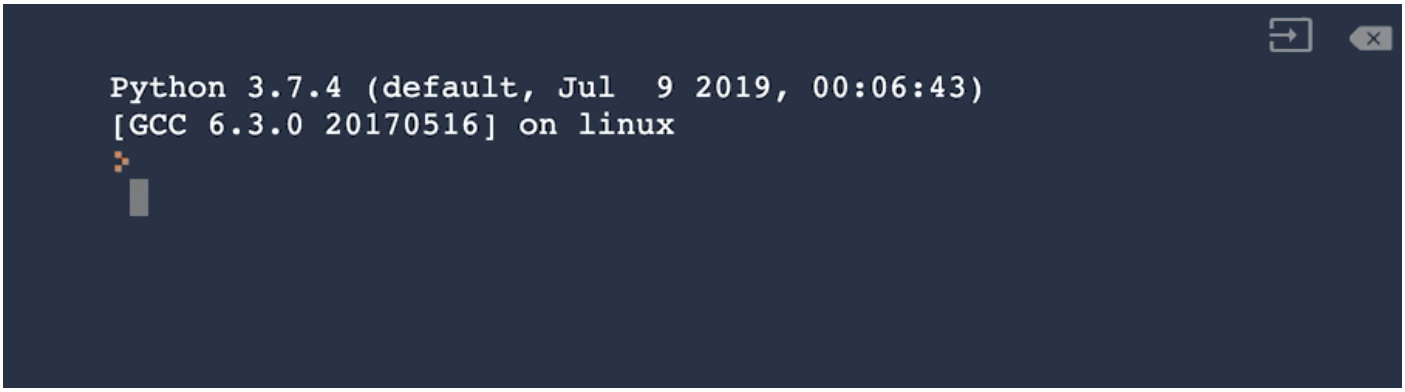
Example Input 2

```
94
```

Example Output 2

```
This is an even number.
```

e.g. When you hit **run**, this is what should happen:



Hint

1. All even numbers can be divided by 2 with 0 remainder.
2. Try some using the modulo with some odd numbers e.g.

3 % 2

5 % 2

7 % 2

Then try using the modulo with some even numbers e.g.

4 % 2

6 % 2

8 % 2

See what's in common each time.

Test Your Code

Check your code is doing what it is supposed to. When you're happy with your code, click submit to check your solution.

Solution

https://repl.it/@appbrewery/day-3-1-solution

OPEN ASSIGNMENT WORKSPACE