



PRACTICE PYTHON

Beginner Python exercises

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Odd Or Even Solutions

Exercise 2

Ask the user for a number. Depending on whether the number is even or odd, print out an appropriate message to the user.

Hint: how does an even / odd number react differently when divided by 2?

Extras:

1. If the number is a multiple of 4, print out a different message.
2. Ask the user for two numbers: one number to check (call it `num`) and one number to divide by (check). If check divides evenly into `num`, tell that to the user. If not, print a different appropriate message.

Sample solution

There are many ways of doing the exercise, so I am posting a few sample solutions. The very basics:

```
1 num = input("Enter a number: ")
2 mod = num % 2
3 if mod > 0:
4     print("You picked an odd number.")
5 else:
6     print("You picked an even number.")
```

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And something that looks slightly more complex (but is just a more complicated conditional):

```
1 num = int(input("give me a number to check: "))
2 check = int(input("give me a number to divide by: "))
3
4 if num % 4 == 0:
5     print(num, "is a multiple of 4")
6 elif num % 2 == 0:
7     print(num, "is an even number")
8 else:
9     print(num, "is an odd number")
10
11 if num % check == 0:
```

```
12     print(num, "divides evenly by", check)
13     else:
14         print(num, "does not divide evenly by", check)
```

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