



PRACTICE PYTHON

Beginner Python exercises

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Divisors Solutions

Exercise 4

Create a program that asks the user for a number and then prints out a list of all the divisors of that number. (If you don't know what a *divisor* is, it is a number that divides evenly into another number. For example, 13 is a divisor of 26 because $26 / 13$ has no remainder.)

Sample solution

```
1  __author__ = 'jeffreyhunt'
2
3  num = int(input("Please choose a number to divide: "))
4
5  listRange = list(range(1,num+1))
6
7  divisorList = []
8
9  for number in listRange:
10     if num % number == 0:
11         divisorList.append(number)
12
13  print(divisorList)
```

Practice Python - Exercise 4: Divisors hosted with  by GitHub[view raw](#)

There were a number of tricky things with this exercise. First, the type conversions between input strings and integers for the `range()` function need to be carefully output. Second, the arguments to `range()` had to be carefully constructed to cover all the possible numbers. Third, the condition in the `if` statement had to be correct as well.

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