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 ChatGPT 88 GPTs erkunden

GCD Calculation in Python ---

Python GCD Function

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Consider the following programming problem: Given two positive integers A and B, find GCD of A and B. Please provide a solution for this problem in the Python language.

> You can solve the problem of finding the Greatest Common Divisor (GCD) of two positive integers A and B using the Euclidean algorithm. The Euclidean algorithm is efficient and works based on the principle that the GCD of two numbers also divides their difference.

Here is a Python solution using the Euclidean algorithm:

```
def gcd(a, b):
         a, b = b, a % b
A = int(input("Enter the first number (A): "))
B = int(input("Enter the second number (B): "))
result = gcd(A, B)
```

Explanation:

- The function `gcd` takes two arguments, `a` and `b`.
- It repeatedly replaces `a` with `b` and `b` with `a % b` until `b` becomes zero. When `b` is zero, `a` will contain the GCD of the two numbers.
- The `%` operator is the modulo operator, which gives the remainder when `a` is divided by `b`.

Example Run:

```
Enter the first number (A): 48
Enter the second number (B): 18
The GCD of 48 and 18 is: 6
```

In this example, the GCD of 48 and 18 is correctly calculated as 6.

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Team-Arbeitsbereich hinzufügen

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