GCD or HCF of two numbers

Greatest Common Divisor(GCD)

I/p: a = 4, b= 6
O/p: 2
I/p: a = 100, b = 200
O/p: 100
I/p: a = 7, b = 13
O/p: 1

Euclidean Algorithm

```python
def gcd(a, b):
        while a != b:
                if a > b:
                        a = a – b
                else:
                        b = b - a
        return a

a = 12
b = 15
print(gcd(a, b))
```

Optimised Euclidean Algorithm

```python
def gcd(a, b):
        if b == 0:
                return a
        return gcd(b, a % b)

a = 12
b = 15
print(gcd(a, b))
```