ged (m,n) if n/m limit = min (mm) forctorlist = [] report n for each k in I to limit else report gcd (n,
m mod n)
What happens if m 2 n? if k/m and k/n append k ho factordisk report rightmost element in factorlist as god gcd (6,18) → gcd (18,6 mod 18) = acd (18,6)

Refining the naive algorithm

Don't need a list - sufficient to remember most recent common factor mrcf

for k in 1 to limit

If klm and kln

set mrcf to k

report mrcf as gcd

Stop at frost commission

```
In Python

def gcd (m,n):

limit = min(m,n)

for k in range (1, limit+1):

if m% k == 0 and n% k == 0:

mrcf = k

return (mrcf)
```

```
Python program

def function1(--):

= def gcd(-)

def function2(-):

read values mak

n from keyboard

a report gcd

= ] 
Anonymous function, automatically executed
```

Two main aspects to a programming language

1. Control flow

How instructions are executed

-sequence, loop, conditional,

calling a function

2. Data & values



