

1.

if  $a < b$ , swap (a,b)

while b does not equal 0

$r = a \bmod b$

$a = b$

$b = r$

end while

output a

2.

The image shows a Scratch code editor window. The code is as follows:

```
when clicked
  ask "Give me the first number" and wait
  set first to answer
  ask "Give me the second number" and wait
  HCF first answer

define HCF a b
  if a = 0 then
    say b for 2 seconds
  else
    HCF b mod a a
```

The stage area shows a cat sprite with a speech bubble saying "Give me the first number". A text input field contains the number "360". The variable "first" is set to 360. The sprite is positioned at x: -92, y: 10.

Code Costumes Sounds

Motion

- move 10 steps
- turn 15 degrees
- turn 15 degrees
- go to random position
- go to x: -92 y: 10
- glide 1 secs to random position
- glide 1 secs to x: -92 y: 10
- point in direction 90
- point towards mouse-pointer
- change x by 10

```

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```

first 360

Give me the second number

270

Sprite Sprite1 x: -92 y: 10

Show Size 100 Direction 90

Stage

Backdrops

Sprite1

Backpack

Code Costumes Sounds

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- turn 15 degrees
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first 360

90

Sprite Sprite1 x: -92 y: 10

Show Size 100 Direction 90

Stage

Backdrops

Sprite1

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