

HYPOTENUS KALKULATOR

```
void setup() {
  //initialise Serial port
  Serial.begin(9600);
}

void loop() {
  int a;
  int b;
  float result;

//print instructions, and wait until there is something in the serial buffer
Serial.print("Enter a side value: ");
while(!Serial.available());
a = readSerial();
  if(a == 0)
  {
    return;
  }
Serial.print("Enter the other side value: ");
while(!Serial.available());
b = readSerial();
  if(b == 0)
```

Programmering

```
{  
    return;  
}  
findSide(a,b);  
  
Serial.println();  
}  
  
//readSerial takes the next integer in the Serial buffer, clears the buffer, then returns it  
int readSerial()  
{  
    int i = Serial.parseInt();  
  
    //checks if the received value is a valid integer  
    if(i < 1 || (i%1 != 0))  
    {  
        Serial.println("That isn't a valid integer");  
        return 0;  
    }  
    Serial.println(i);  
    Serial.parseInt();  
    return i;  
}  
  
void findSide(int x, int y)
```

Programmering

```
{  
//calculate C squared by A squared + B squared  
float hypotenuse = sqrt(x*x + y*y);  
  
//print out the result  
Serial.print("Hypotenuse = ");  
Serial.println(hypotenuse);  
}
```