

Sha256

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This Code lets you find a hash number with, for example, two leading zeros. It can find as many leading zeros as possible, but often your computer is not capable of finding more than 8 or 9.

PYTHON CODE: FINDING THE PATTERN

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First we have the function called "GetHash". This function calculates through the numbers, by always adding 1 to the number value. The while loop runs until the hash of the string + number equals the pattern we defined when we called the function. When it found the solution the program prints the number we need and the hash code.

```
import hashlib

def GetHash(String, Pattern):
    Found = False
    L = len(Pattern)
    Num = 0
    while not Found:
        Start = ""
        Num = Num+1
        Hash = hashlib.sha256(String+str(Num)).hexdigest()

        if Hash[0:len(Pattern)] == Pattern:
            Found= True
            print "The Number to match pattern " + Pattern + " is " + str(Num)
            print Hash

GetHash("This is a test","000")
```

EXAMPLE OUTPUT

```
>>>
The Number to match pattern 000 is 6143
000c1c91f62900ed48176acb54ede5ee966168a1a2d242cc100e476d905facad
>>>
```