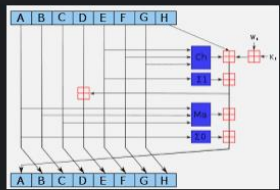


Cryptography Fundamentals



- algorithm
- diagram
- flowchart
- blockchain
- block diagram
- hmac
- function
- circuit
- logic
- equation
- working
- SHA 256
- icon
- implementation
- explained
- logo



SHA-2 - Wikipedia
en.wikipedia.org

```
checksum - Netpad
File Edit Format View Help
Algorithm: SHA256
Hash: 30A6C1E8F6A460CFB5249F2620D532118BC4C777579E9K8209874151110A
Path: C:\Windows\notepad.exe

Algorithm: SHA512
Hash: 5F5A085648A4448B6F63D678D9C4F38C80F1E6F2A5C1N89654A4A8648B113F8
Path: C:\Windows\notepad.exe
```

SHA-256 or SHA-512 checksum of a file ...
support.industry.siemens.com

SHA256

SHA256 online hash function

regeneratesurmes

9b1377289a4c402484dc3ba79bc0d6f1420ba4dc0a-fac123b76104b426

SHA256

SHA256 online hash function

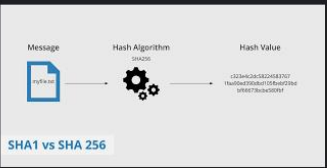
regeneratesurmes

9b1377289a4c402484dc3ba79bc0d6f1420ba4dc0a-fac123b76104b426

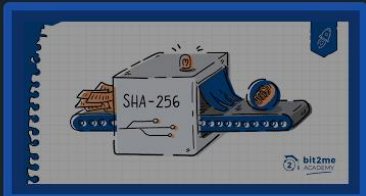
Algorithm and Breaking SHA256 ...
medium.com

```
length hash $ 64;
foreach hash {sha256};
set cmd=ipconfig;
/* new secure hash function in SAS 9.4del */
hash = sha256(cmd);
put;
```

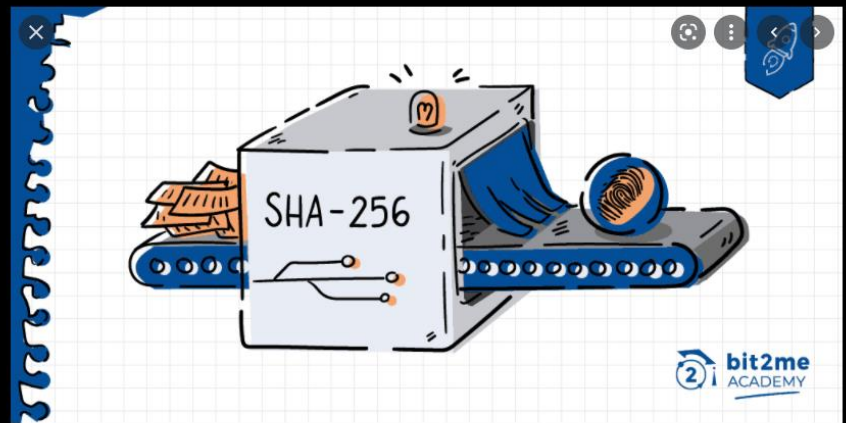
SHA256 function in SAS 9.4 ...
blogs.sas.com



SHA1 vs SHA 256
keycdn.com



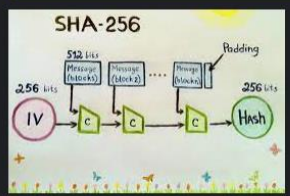
What is SHA-256? | Bit2Me Academy
academy.bit2me.com



Bit2Me Academy
What is SHA-256? | Bit2Me Academy
Images may be subject to copyright. Learn More
Visit

```
Windows PowerShell
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.
PS C:\Users\NTT> get-filehash -algorithm sha256 -path C:\Windows\notepad.exe
Path: C:\Users\NTT
```

SHA-256 or SHA-512 checksum of a file ...
support.industry.siemens.com



SHA-256 Algorithm - Encryption ...
en.bitcoinwiki.org

Related images

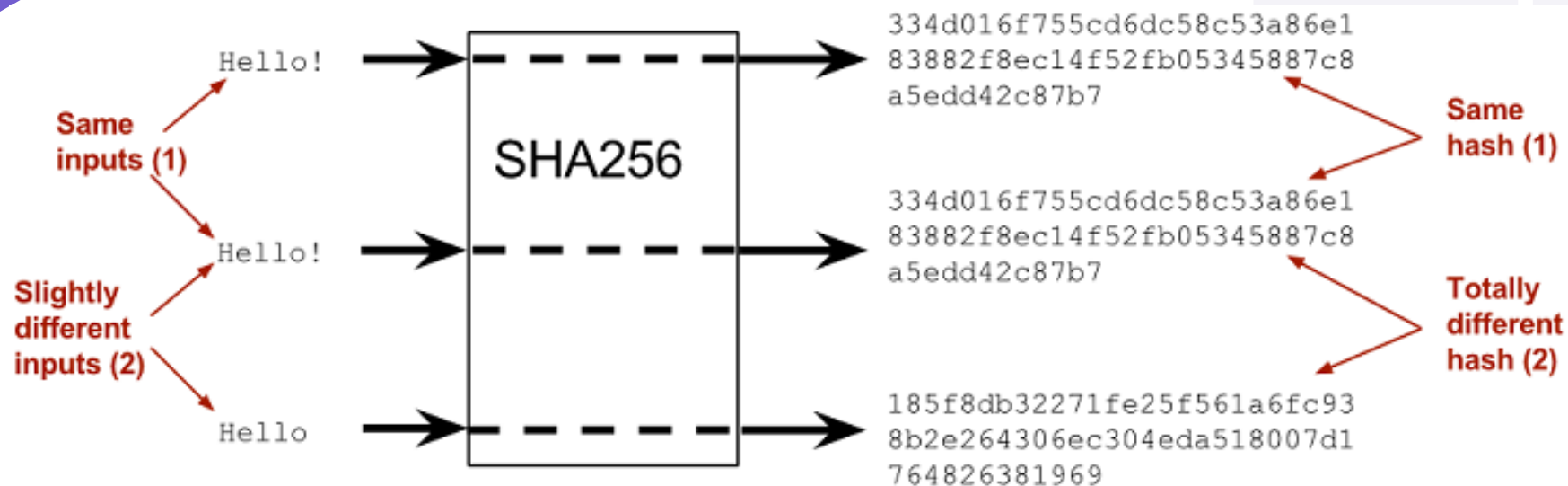
See more

What is a hash? | Bit2Me Academy
academy.bit2me.com

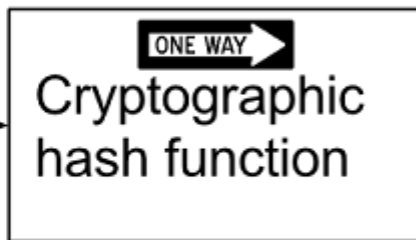
What is the X11 mining algorithm...
academy.bit2me.com

CRYPTOCURRENCY HASH AND ...
medium.com

What is a Bitcoin hash and SHA-...
youtube.com



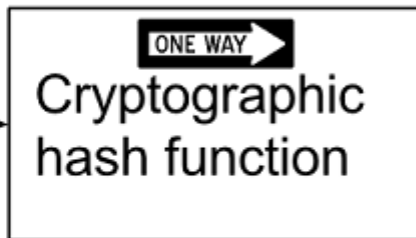
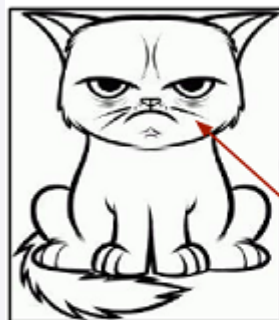
Input



Output

dee6a5d375827436ee4b47a
930160457901dce84ff0fac
58bf79ab0edb479561

Input



Output

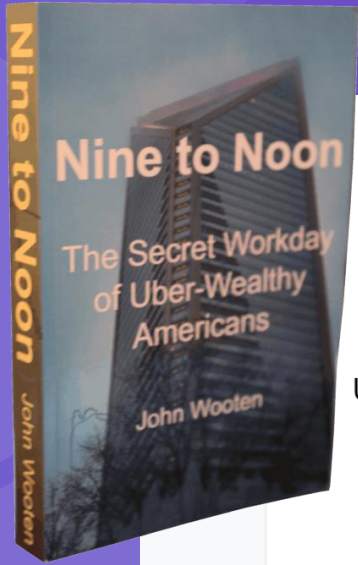
d2ca4f53c825730186db9ea
585075f96cd6df1bfd4fb7c
687a23b912b2b39bf6

Cat2.jpg
1.21 MB

Missing whisker!
Now she's got
reason to be
grumpy.

Completely
different than the
previous hash!

a hash
32 bytes



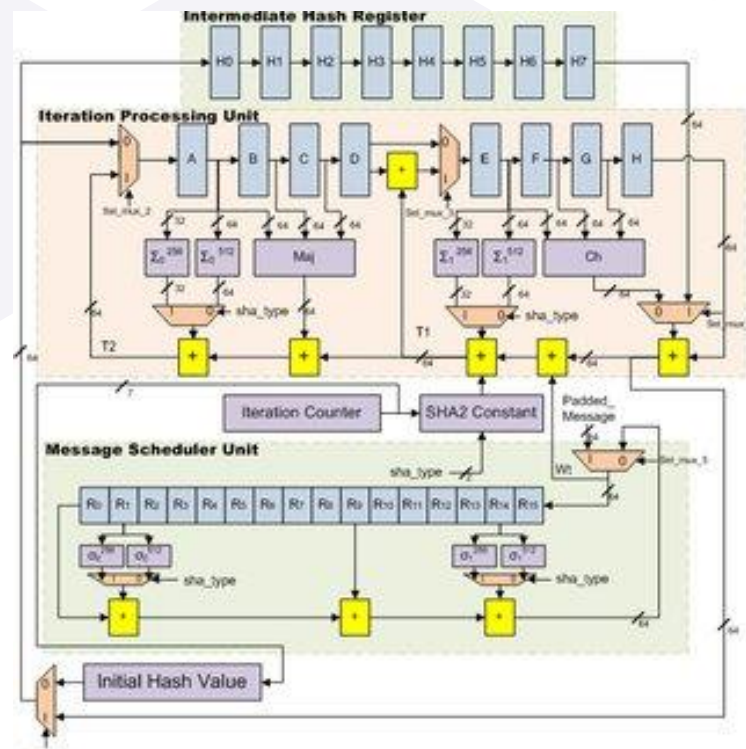
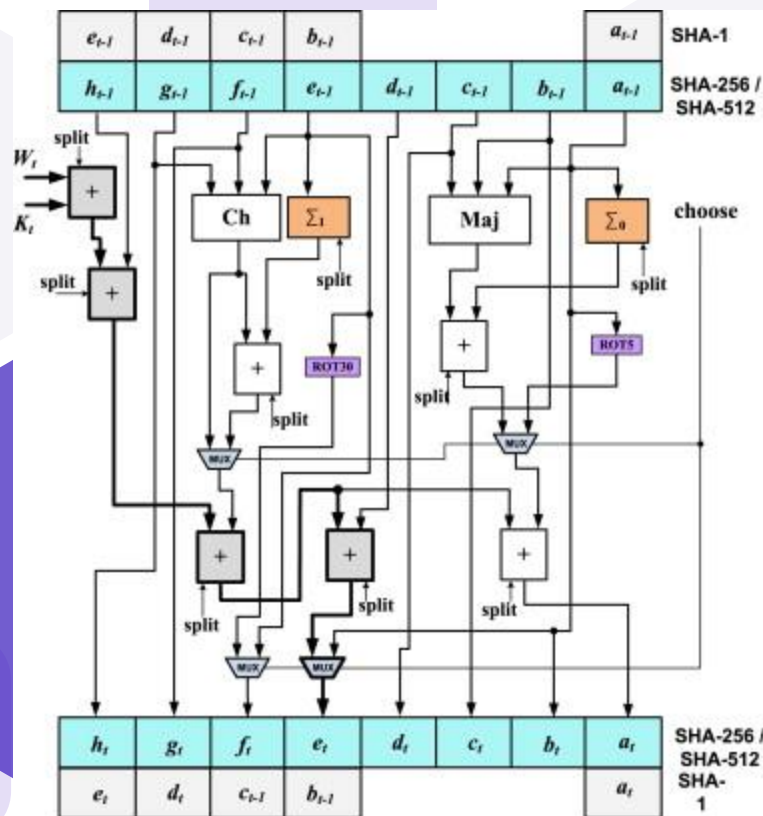
Nine to Noon

The Secret Workday of
Uber-Wealthy Americans

By John Wooten



4fd7a192486a0ec37f46baf01b31c6776c6ebef1d736632919bfc5054a5796c1





2²⁵⁶

115 quattuorvigintillion 792 trevigintillion 89 duovigintillion 237
unvigintillion 316 vigintillion 195 novemdecillion 423 octodecillion 570
septendecillion 985 sexdecillion 8 quindecillion 687 quattuordecillion 90
tredecillion 853 duodecillion 269 undecillion 984 decillion 665 nonillion
640 octillion 564 septillion 39 sextillion 457 quintillion 584 quadrillion 7

2^{256}



Block 699622


USD

BTC

This block was mined on September 08, 2021 at 8:58 AM EDT by [Unknown](#). It currently has 1 confirmations on the Bitcoin blockchain.

The miner(s) of this block earned a total reward of 6.25000000 BTC (\$289,690.13). The reward consisted of a base reward of 6.25000000 BTC (\$289,690.13) with an additional 0.17220449 BTC (\$7,981.75) reward paid as fees of the 2677 transactions which were included in the block. The Block rewards, also known as the Coinbase reward, were sent to this [address](#).

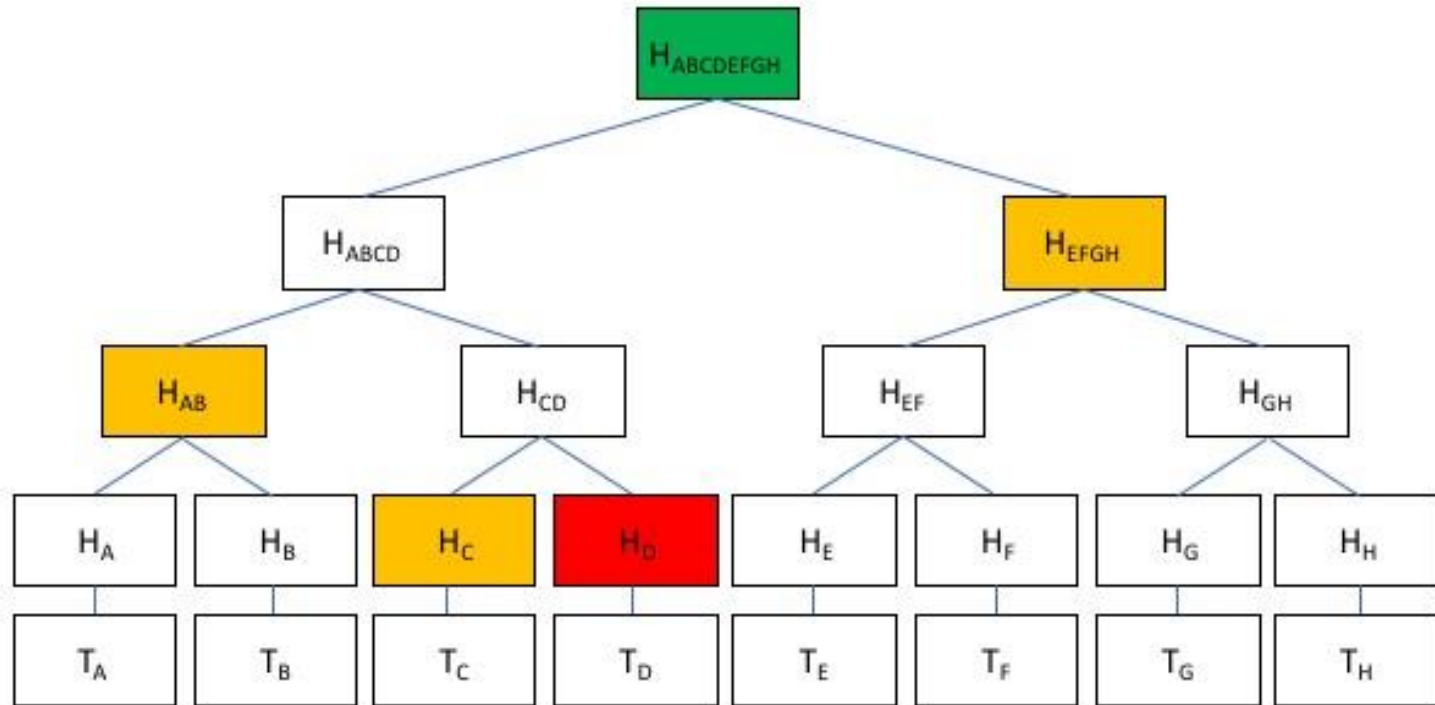
A total of 16,128.54476263 BTC (\$747,564,823.74) were sent in the block with the average transaction being 6.02485796 BTC (\$279,254.70). Learn more about [how blocks work](#).

Hash	00000000000000000000000003fa8ebda5058dca475e65a8aaf692dc5a7449cf6e5a89 
Confirmations	1
Timestamp	2021-09-08 08:58
Height	699622
Miner	Unknown
Number of Transactions	2,677
Difficulty	18,415,156,832,118.24
Merkle root	a639d69cb0d99150c72a8753abb4885b9330d728369ef03047e98ead0559a95c
Version	0x20800004
Bits	386,877,668
Weight	3,992,798 WU
Size	1,589,291 bytes
Nonce	2,236,163,915





Merkle Trees



NAME	ADDRESS	ASSET	Shares
Goldy Tenreiro-Br	122 Somewhere Street, Emor	HackATL Class A Common Stock	4.00
Benchmark Inves	123 Somewhere Street, Emor	HackATL Class A Common Stock	23.00
Amelia Schaffner	124 Somewhere Street, Emor	HackATL Class A Common Stock	2.00
Sequoia Capital	125 Somewhere Street, Emor	HackATL Class A Common Stock	4.00
Alphabet, Inc.	126 Somewhere Street, Emor	HackATL Class A Common Stock	24.00
Michelle He	127 Somewhere Street, Emor	HackATL Class B Preferred Stock	112.00
Vanguard Investm	128 Somewhere Street, Emor	HackATL Class A Common Stock	22.00
Homer Simpson	129 Somewhere Street, Emor	HackATL Class A Common Stock	164.00
Megan Maxxi	130 Somewhere Street, Emor	HackATL Class A Common Stock	3.00
George Burdell	131 Somewhere Street, Emor	HackATL Class A Common Stock	1112.00
Joe Rhogan	132 Somewhere Street, Emor	HackATL Class A Common Stock	454.00
Andrew Johnson	133 Somewhere Street, Emor	HackATL Class B Preferred Stock	212.00
Josh Mik	134 Somewhere Street, Emor	HackATL Class A Common Stock	55.00
Ricky Anderson	135 Somewhere Street, Emor	HackATL Class A Common Stock	406.00
GE Capital Invest	136 Somewhere Street, Emor	HackATL Class A Common Stock	125.00
FMR, LLC	137 Somewhere Street, Emor	HackATL Class A Common Stock	552.00
Marielle Mangana	138 Somewhere Street, Emor	HackATL Class A Common Stock	674.00
Sig Mosley	139 Somewhere Street, Emor	HackATL Class A Common Stock	428.00
Josh Cameron	140 Somewhere Street, Emor	HackATL 3yr Senior 4.6% Note	
Michelle Ha	141 Somewhere Street, Emor	HackATL 3yr Senior 4.6% Note	

John Doe
1234 5th Street
Hometown, USA 123456

DATE July 4, 2017

Pay to the order of: Jane Smith
Fifty-Two and 23/100 DOLLARS

Check amount (numerical): \$ 52.23

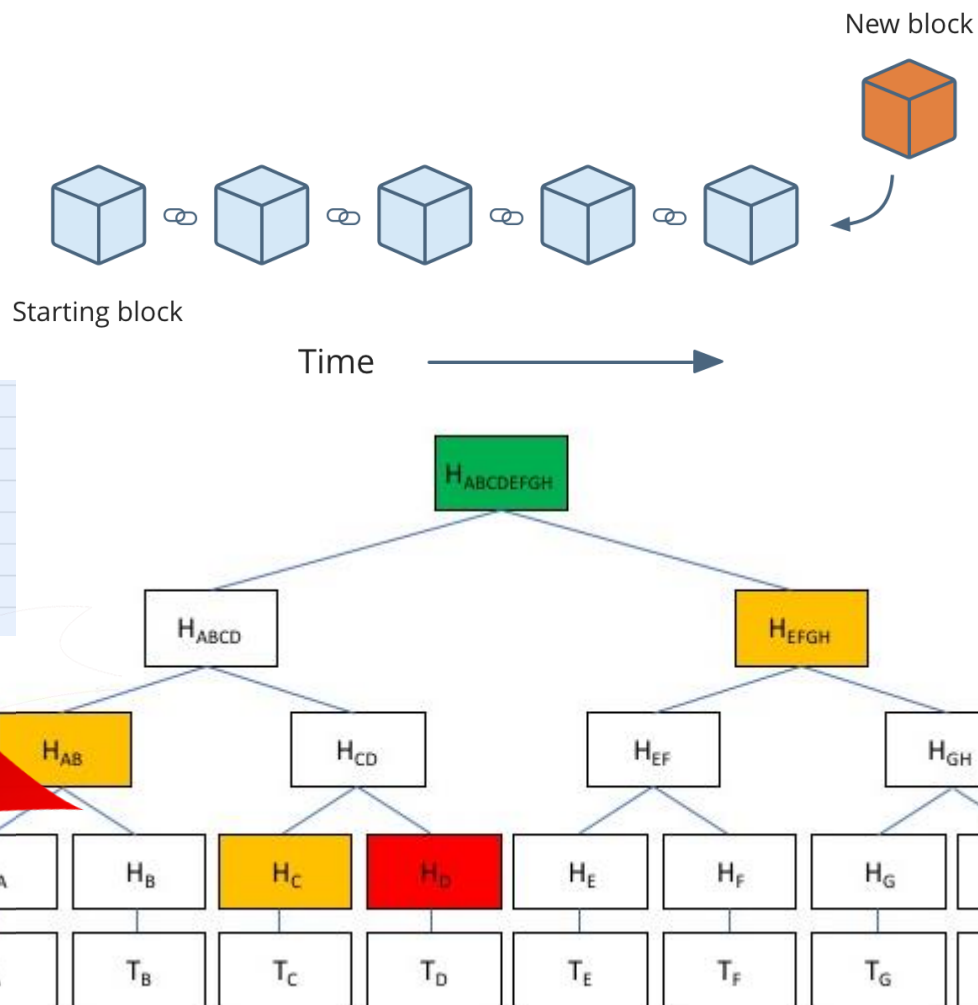
Check amount (spelled out): Five and two tenths

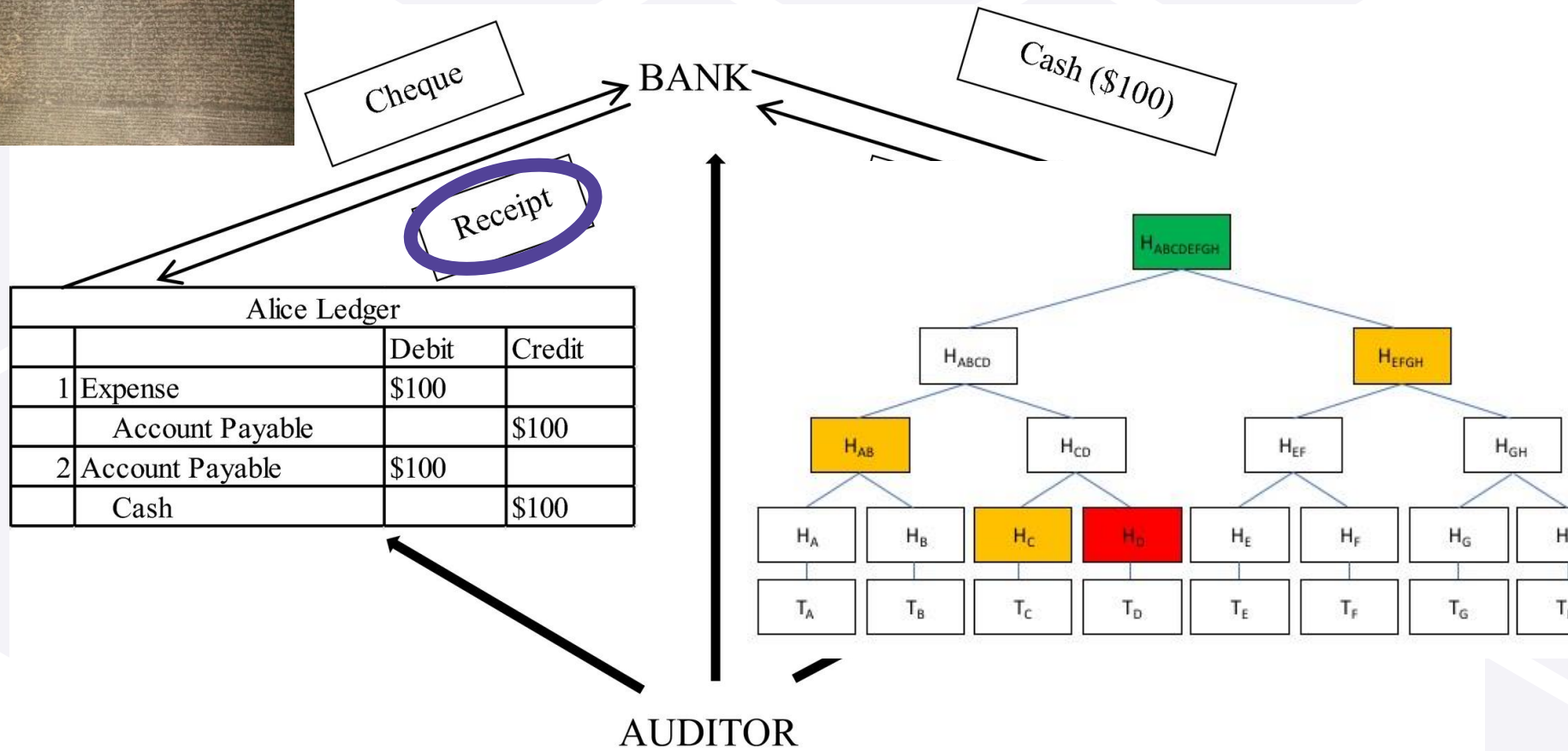
Reason for payment (optional): Landscaping

Your signature: Jane Smith

MEMO: Landscaping

323276524 XXXXXX7890







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John Jones

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