

# Block Chain

## Assignment for solving computational puzzle

### Task

Write a python code to solve a computational puzzle for proof of work.

The input string is “ this is a block chain course”.  
It should be concatenated with an int (called nonce) to generate a hash value.

The puzzle is considered solved if the hash value contains three zeros in the string

You can either keep generating a nonce at random in a loop or iterate over fixed values.

Use the following function to generate an MD5 hash  
`result = hashlib.md5(strrr.encode())`

where strrr is your concatenated string containing given text and the the number

you may print the result using `hexdigest()` function.

[Note the time to compute and time to verify](#)

Submit Code and Snapshots on Slate