Activity 1: Find the hash which has 6 leading zeroes

```
import hashlib
#to create a hash
print(hashlib.sha256("Hello world".encode()).hexdigest())
zeroes=6
def mine(block_number,transactions,previous_hash):
base_text=str(block_number)+transactions+previous_hash+str(nonce)
       hash try=hashlib.sha256(base text.encode()).hexdigest()
       if hash try.startswith('0'*zeroes):
           print(f"Found Hash With Nonce: {nonce}")
block_number=24
transaction="76123fcc2142"
previous hash="876de8756b967c87"
combined text=str(block number)+transaction+previous hash+str(9637103)
print(hashlib.sha256(combined text.encode()).hexdigest())
mine(block number, transaction, previous hash)
```