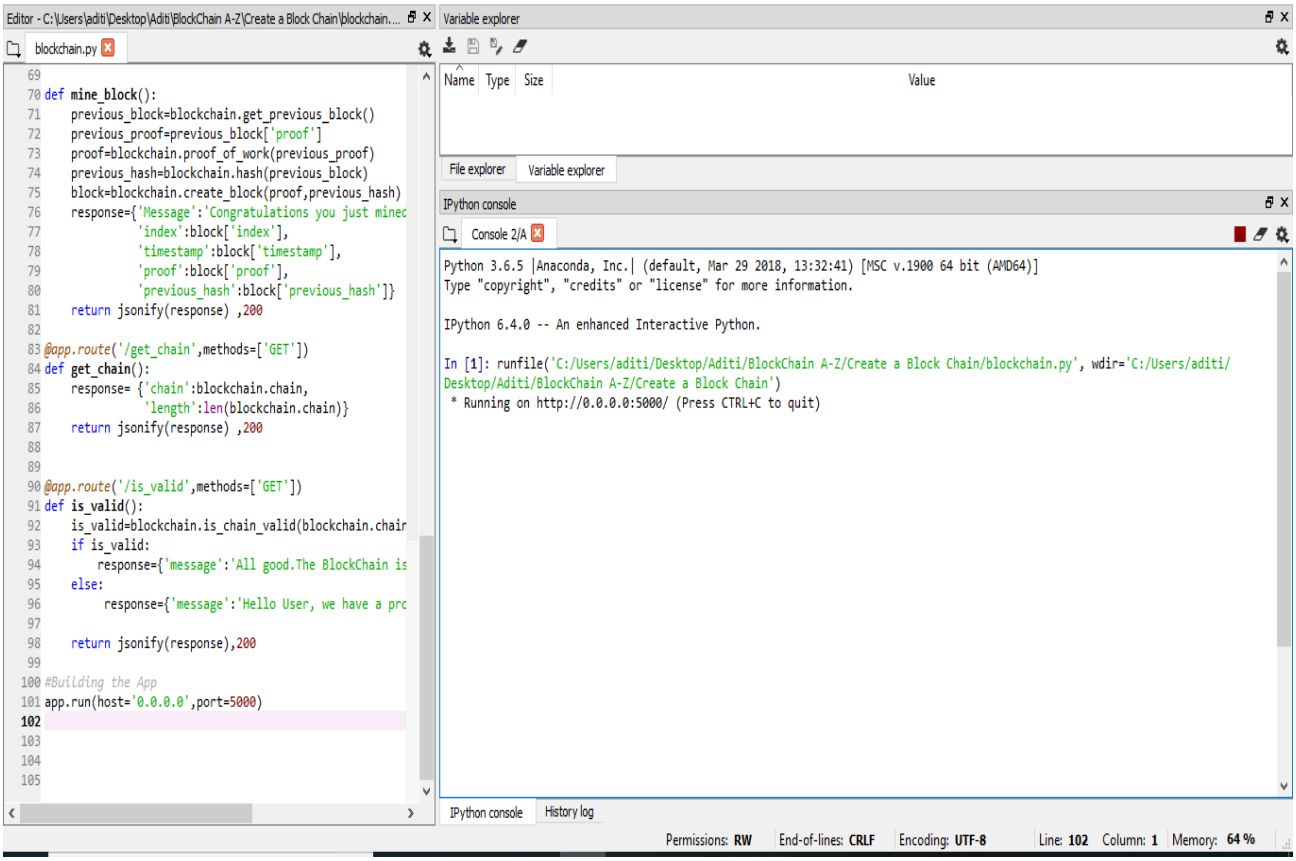
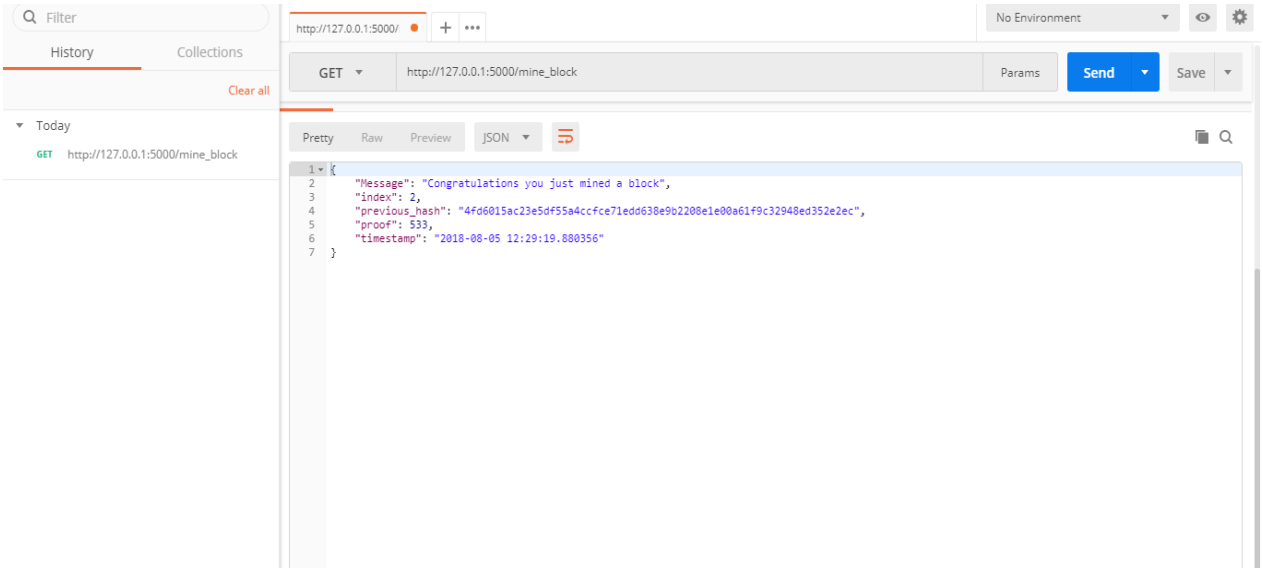
1. Running Code in IDE

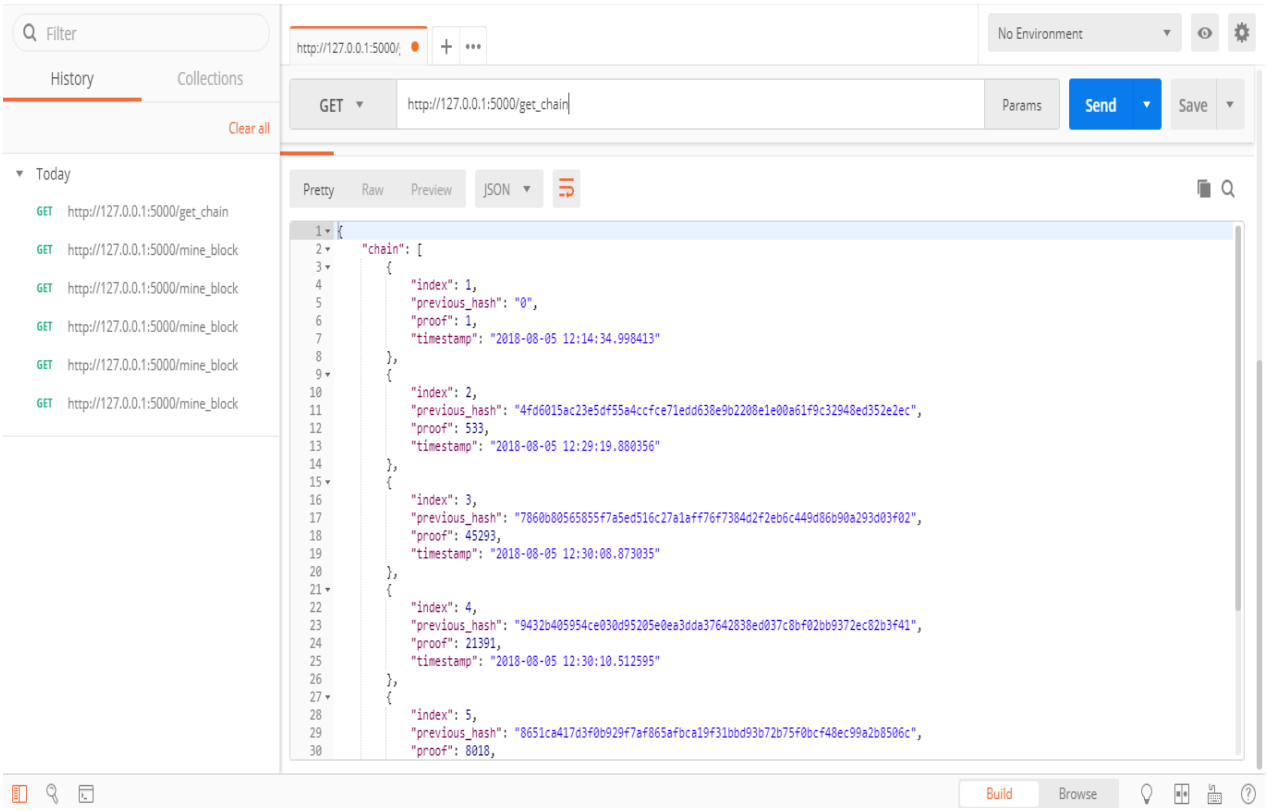



```
def mine_block():
    previous_block=blockchain.get_previous_block()
    previous_proof=previous_block['proof']
    proof=blockchain.proof_of_work(previous_proof)
    previous_hash=blockchain.hash(previous_block)
    block=blockchain.create_block(proof,previous_hash)
    response={'Message':'Congratulations you just mined
              'index':block['index'],
              'timestamp':block['timestamp'],
              'proof':block['proof'],
              'previous_hash':block['previous_hash']}
    return jsonify(response) ,200

@app.route('/get_chain',methods=['GET'])
def get_chain():
    response= {'chain':blockchain.chain,
               'length':len(blockchain.chain)}
    return jsonify(response) ,200


@app.route('/is_valid',methods=['GET'])
def is_valid():
    is_valid=blockchain.is_chain_valid(blockchain.chair
    if is_valid:
        response={'message':'All good.The BlockChain is
    else:
         response={'message':'Hello User, we have a prc

    return jsonify(response),200

#Building the App
app.run(host='0.0.0.0',port=5000)
```

2. Mining a block



3.Getting the Chain



4. Checking if Chain is Valid