**Blockchain Practical List with References**

Reference Link for all Codes: [Blockchain P1.ipynb](https://colab.research.google.com/drive/1Gi7EOYJ6t9OVhUWGX1dcU0ec6LJqWLXg?usp=sharing) [Blockchain P2.ipynb](https://colab.research.google.com/drive/1mQ6rp0hCUc5p5HDtRNjk58UHZskn_W9v?usp=sharing)

[Blockchain P3 Solidity Code for Backup (Remix.ethereum).ipynb](https://colab.research.google.com/drive/1jWPmMlhgH7YguNY0c7y_hamb_MbrQ-dB?usp=sharing) (To be performed in Solidity using <https://remix.ethereum.org/> OR <https://chainide.com/>)

Practical List:

1. Develop a secure messaging application where users can exchange messages securely using RSA encryption. Implement a mechanism for generating RSA key pairs and encrypting/decrypting messages.
2. Allow users to create multiple transactions and display them in an organised format.
3. Create a Python class named Transaction with attributes for sender, receiver, and amount. Implement a method within the class to transfer money from the sender's account to the receiver's account..
4. Implement a function to add new blocks to the miner and dump the blockchain.
5. Write a python program to demonstrate mining.
6. Write a Solidity program that demonstrates various types of functions including regular functions, view functions, pure functions, and the fallback function.
7. Write a Solidity program that demonstrates function overloading, mathematical functions, and cryptographic functions.
8. Write a Solidity program that demonstrates various features including contracts, inheritance, constructors, abstract contracts, interfaces.
9. Write a Solidity program that demonstrates use of libraries, assembly, events, and error handling.