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| **Sr. No** | **Blockchain Practical Index 2022** |
| 1 | Implementation of Caeser Cipher and show the encryption as well as decryption process using JAVA or Python. (Symmetric Encryption) |
| 2 | Implementation of RSA Algorithm (Asymmetric Encryption) Encrypt and decrypt a string. |
| 3 | Implementation of SHA-256 (Use any programming Language) |
| 4 | Implementation of Binary Tree and to show all operations (Insert, Delete, Traversals, Display) |
| 5 | Blockchain creation program using Java |
| 6 | Install Ganache and metamask.  Compile and deploy an election smart contract in the personal blockchain using injected web 3 environments. Use Remix online IDE to compile and deploy the smart contract. Execute the smart contract and show the output. (available on Classroom) |
| 7 | Program using Solidity to check Balance |
| 8 | The use of GANACHE Truffle Suite to Deploy a Smart Contract in Solidity (Blockchain) |
| 9 | Write a program in solidity to create a structured student with Roll no, Name,Class, Department,Course enrolled as variables.  I)Add information of 5 students.  ii)Search for a student using Roll no  iii)Display all information |
| 10 | Create Daps **Voting Process** using Solidity smart contract and web3 (available on Classroom) |
| 11 | Mini Project |