Blockchain: Tools and Technologies


# LAB 5

1. Install Ethereum node with JavaScript/Web3 CLI in dev mode. Add two addresses. Transfer some Ether from one address to another. Get information about this transaction and its block. Take a screenshot.

3. Write a program to connect to your Ethereum node via Web3 protocol, create, sign with private key and send the transaction transferring some ether from one address to another. Get information about this transaction and its block via Node CLI or your program. Take a screenshot.

3. Install solc compiler, compile an example smart contract with a variable and two methods to get and set its value. Write a program to deploy a contract. Write a program to call smart contract’s method to get variable value. Write a program to send a signed transaction to set variable value. Get information about this transaction and its block via Node CLI or your program. Take the screenshots.

4. Write a report with programs source code, your comments, example and debug outputs, screenshots.

5. Upload your report to Moodle.

**Guideline:**

Use Geth in --dev mode or other Ethereum node and examples from Lecture 4.