DEPLOYING A SMART CONTRACT ON THE PRIVATE BLOCKCHAIN BY USING GETH CLENT

1. create athe genesis file named “genesis.json”

2. Use command “geth --datadir ./datadir init ./genesis.json” to set the genesis block of you chain. This command will also create a new folder named datadir which stores chain data .

3.i used the command “geth --datadir ./datadir/ --networkid 73829 console” to start the blockchain in the network with the chainID73829

4.Create a new account with personal.newAccount(“sujan”). Keystore folder would be updated accordingly. And coinbase would be set as default account.

5. After updating truffle.js config file use the command “geth --datadir ./datadir --networkid 73829 --http –http.port 30303 --allow-insecure-unlock console” to start the geth network and enable rpc and http services

6.miner.start() to check whether the mining works good if it is good then I create another new account to transfer and check whether the blockchain works good.

7. open the another CLI and create a new project directory start by giving “truffle init “ command to create folders in the project directory.

8. copy the kyc file into the new project directory and Make sure we have network defined in truffle config file. Connect using command “truffle migrate –-network geth”. This will migrate smart contract to the geth network.

9. After contract migrations are saved to the chain we can see the amount of gas used for the contracts to save in the chain .

10. Open truffle console with command” truffle console --network geth” and create an instance of contract.

11. Instance is created with command “ let var kyc = await KYC.deployed()”

12. Test the functions in smart contract