Weekend Project 1: Group 6

In the next contract address we can see the first 8 transactions that were the result of the first experimentation of the group.

The first transaction was sent by the address `0x2d31C441bcc39A107E5648Ae2A246B4b939795c0` to deploy the contract. The contract is deployed (instantiated) in the address `0xe4e6801e89540247c71628b63c134c5ee60f5acc` . When the contract is instantiated the `constructor` is executed, in it the private state variable `test` is set to `Hello World` and the public state variable `owner` is set to the sender of the deploy transaction. In the second transaction the owner of the contract set the text to his name and the transaction succeeded . In this case the `setText` method is called and the `onlyOwner` modifier is executed. The `require` function in the `onlyOwner` is executed testing that the sender of the second transaction is the owner and after that the rest of the body in the `setText` function is executed, setting the text correctly. In the third transaction the ownership of the contract is transferred to the address `0x5f0b5C7D5939D6fEd09B27c7449F4D7d813AEfe4` . In this case the method `transferOwnership` is executed, the modifier `onlyOwner` is executed first, the `require` function success and the rest of the body of the `transferOwnership` success too. In the transaction number four the `setText` method is executed again by the new owner. Now we have the same case as in transaction two, the transaction executed successfully.

In the transaction number five a new owner is set executing the `transferOwnership` method, this is the same case as transaction number three. In the transaction number six a new text is set, this case is the same as transaction number two. In the transaction number eleven something interesting happened. The `setText` method is executed by and address that is not the owner, in this case the address `0x5f0b5C7D5939D6fEd09B27c7449F4D7d813AEfe4` . In this case the modifier is executed and fails due to the fact that the sender of the transaction to execute the method is not the owner. The execution is reverted. In the transaction number eight something similar to previous transaction occurs, someone that is not the owner tries to set the owner to himself executing the method `transferOwnership` . Again, the modifier executes the `require` function and the transaction reverts with an error.