Flash Loans Exercise 2

Intro

Your goal in this exercise is to take a flash loan on AAVE V3.

Note: This exercise is executed on an Ethereum mainnet Fork block number `15969633`.

Ethereum MAINNET Addresses

```
USDC: 0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48

AAVE Lending Pool: 0x7d2768dE32b0b80b7a3454c06BdAc94A69DDc7A9

Impersonated Account: 0x8e5dedeaeb2ec54d0508973a0fccd1754586974a
```

Tasks

Task 1

Implement the `getFlashLoan` and `executeOperation` functions inside the `FlashLoan.sol` smart contract.

`getFlashLoan` - receive a token address and amount, and executes a flash loan.

`executeOperation` - the "callback" function, will be called from AAVE's contract.

Use the Solidity Hardhat `console.log` command to log the following params:

1. Contract's token balance before the flash loan.
2. Contract's token balance during the flash loan.
3. Flash loan fee (that is being sent from AAVE contract's callback).

Task 2

In the `tests.js` complete all the open TODOs

Important: make sure to impersonate the account that is mentioned in the addresses section so you have enough USDC to pay the flash loan fees.