Deploy a simple Solidity smart contract to Sepolia network

Task description:  
  
You will have to deploy and verify a “Hello world” smart contract on Sepolia network.

1. Download and create a [Metamask](https://chrome.google.com/webstore/detail/metamask/nkbihfbeogaeaoehlefnkodbefgpgknn?hl=en) account. Do not share the seed phrase with anyone.
2. Get some test ether on a dedicated faucet. [Here](https://sepoliafaucet.com/) or [Here](https://faucet.quicknode.com/ethereum/sepolia), for example.
3. Go to [remix](https://remix.ethereum.org/), create a new file, and paste the following code:  
     
   pragma solidity 0.8.19;

contract HelloWorld {

string public greet;

constructor(string memory name) {

require(bytes(name).length > 0, "name can't be empty");

greet = string.concat("Hello world, my name is ", name);

}

}

1. Compile the file with the Solidity 0.8.19 compiler and optimization off.
2. Connect your metamask account to remix and choose Sepolia network.
3. Deploy the contract to Sepolia and provide your name to the smart contract constructor.
4. Search your contract by address on <https://sepolia.etherscan.io/> , click "Contract" and "Verify and Publish"

Follow the instructions there and verify the contract:

- Compiler Type is "Solidity (Single file)".

- License Type is "No License".

- Constructor arguments ABI-encoded can be obtained here. Use the “string” constructor argument to get the encoding.

1. Follow the instructions in remix and verify the contract. The hex encoding can be obtained [here](https://abi.hashex.org/). Use the “string” constructor argument to get the encoding.
2. Open your contract page again. "Contract" -> "Read contract" -> call the method "greet". You should now get a greeting string with the name you specified when you deployed the contract.

What to hand in:

The link to the deployed and verified contract on https://sepolia.etherscan.io/.