**By Code Eater**

**Compilation of Smart Contract using web3.js**

solc = require("solc");

// file system - read and write files to your computer

fs = require("fs");

// web3 interface

Web3 = require("web3");

// setup a http provider

web3 = new Web3(new Web3.providers.HttpProvider("http://127.0.0.1:7545"));

// reading the file contents of the smart contract

fileContent = fs.readFileSync("demo.sol").toString();

console.log(fileContent);

// create an input structure for my solidity compiler

var input = {

language: "Solidity",

sources: {

"demo.sol": {

content: fileContent,

},

},

settings: {

outputSelection: {

"\*": {

"\*": ["\*"],

},

},

},

};

var output = JSON.parse(solc.compile(JSON.stringify(input)));

console.log("Output: ", output);

ABI = output.contracts["demo.sol"]["demo"].abi;

bytecode = output.contracts["demo.sol"]["demo"].evm.bytecode.object;

console.log("Bytecode: ", bytecode);

console.log("ABI: ", ABI);