

# Smart Contracts Exercise 05: Reentrancy

## 1 Introduction

TODO: Write some introduction

### Prerequisites

Ensure that you have already installed the following on your system:

- **Node.js** - <https://nodejs.org/en/> An open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.
- **NPM**: Node Package Manager, which comes with Node.js.

Open your terminal and run the following commands to verify the installations:

```
$ node -v  
$ npm -v
```

Both commands should return the installed version numbers of Node.js and NPM respectively. Node.js provides the runtime environment required to execute JavaScript-based tools like Hardhat, while NPM is used to manage the packages and dependencies needed for development. It is recommended that you use NPM 7 or higher.

For the purposes of this exercise, you will need an Infura API key and a configured wallet. If you do not have this set up yet, we recommend going through the Smart Contracts Exercise 01: Hello, Blockchain World! where everything is explained. Ensure that configuration variables are set for your Hardhat projects. You can verify this by running:

```
$ npx hardhat vars get INFURA_API_KEY  
$ npx hardhat vars get SEPOLIA_PRIVATE_KEY
```

### Project Set Up

To get started, visit the following [GitLab repository](#) and clone it to your local machine. This repository contains a template in which you will complete this exercise. After you clone the repository, start with the following command within your project folder:

```
$ npm install
```