1. Truffle Installation

```
Microsoft windows [version 10.0.19042.804]
(C) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Acceptance\text{Microsoft} Corporation. All rights reserved.

All deprecated mkdirp-promise@5.0.1: request has been deprecated, see https://github.com/request/request/issues/3142

non-mark deprecated har-validator@5.1.5: this library is no longer supported

non-mark deprecated har-validator@5.1.5: this practice in reached

non-mark deprecated urix@0.1.0: Please see https://github.com/lydell/urix@deprecated

non-mark deprecated node-pre-gyp@0.1.1.0: Please upgrade to @mapbox/node-pre-gype in eno-scoped node-pre-gype package is deprecated and only the @mapbox scoped package will recieve updates in the future

non-mark deprecated node-pre-gype@0.1.1.0: Please upgrade to @mapbox devtools/app

non-mark deprecated node-pre-gype@0.1.1.0: Please upgrade to @redux-devtools/app

non-mark deprecated node-pre-gype@0.1.1.0: Please upgrade to get devto-devtools/app

non-mark deprecated node-pre-gype@0.1.1.0: Please upgrade to get devto-devtools/app

non-mark deprecated node-pre-gype@0.1.1.0: Please upgrade to get devto-devtools/app

non-mark deprecated node-gyp-devto-devtools/app

non-mark deprecated node-gyp-devto-devtools/app

non-mark deprecated node-gyp-devto-devtools/app

non-mark deprecated node-gyp-devto-devtoo
```

2. Creating Directory and initializing truffle

```
C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography>mkdir blockchain-toolkit
C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography>cd blockchain-toolkit
C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>truffle init
Starting init...
==========================>> Copying project files to C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit
Init successful, sweet!
```

3. Creating package.json and npm-install

```
C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>touch package.json

C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>npm install

package.json

C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>npm install

package has been renamed to @truffle/contract.

ppm MARN deprecated chokidar@2.1.8: Chokidar 2 will break on node v14+. Upgrade to chokidar 3 with 15x less dependencies.

ppm MARN deprecated istanbul@0.4.5: This module is no longer maintained, try this instead:

npm MARN deprecated visit https://istanbul.js.org/integrations for other alternatives.

npm MARN deprecated visit https://istanbul.js.org/integrations for other alternatives.

npm MARN deprecated truffle-howallet-provider@1.0.17: WARNING: This package has been renamed to @truffle/howallet-provider.

npm MARN deprecated truffle-blockchain-utils@0.0.5: WARNING: This package has been renamed to @truffle/blockchain-utils.

npm MARN deprecated truffle-blockchain-utils@0.0.5: WARNING: This package has been renamed to @truffle/blockchain-utils.

npm MARN deprecated truffle-contract-schema@2.0.3: WARNING: This package has been renamed to @truffle/blockchain-utils.

npm MARN deprecated debug@4.1.1: Debug versions >=3,2.0 <3.2.7 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 | 1,3.1 |
```

4. Creating a smart contract and compiling it further deploying it

```
C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>truffle compile

C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>truffle compile

Compiling your contracts...

Compiling \Contracts\MyContracts\MyContracts.sol

Compiling \Contracts\MyContracts.sol

Compiling \Contracts\MyContracts.sol

Compiling \Contracts\MyContracts.sol

C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>touch migrations/2_deploy_contracts.js

C:\Users\Acer\Desktop\Semester 6\Blockchain and Cryptography\blockchain-toolkit>truffle migrate

Compiling your contracts...

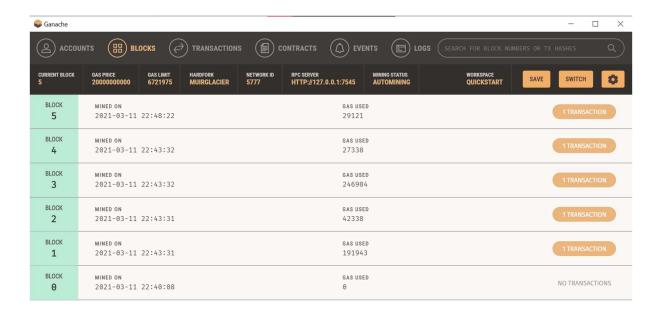
Everything is up to date, there is nothing to compile.

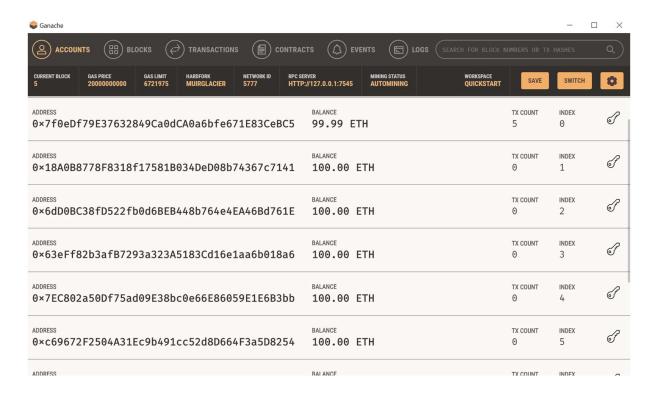
Starting migrations...

Network jame: 'development'

Network jame: 'development
```

5. Creating instance of the deployed contract





6. Communicating with the instance