Homework 3

Installing Solana Command Line Tools

You can either install the tools locally,
or use the [gitpod](#) environment

The instructions are also given in the [documentation](#)

Mac / Linux

```
sh -c "$(curl -sSfL https://release.solana.com/v1.18.4/install)"
```

You need to follow the instructions about updating the PATH variable,
you can check the installation with

```
solana --version
```

Windows

Open a command prompt as an administrator
Run

```
cmd /c "curl https://release.solana.com/v1.18.4/solana-install-
```

```
init-x86_64-pc-windows-msvc.exe --output C:\solana-install-
tmp\solana-install-init.exe --create-dirs"
```

```
C:\solana-install-tmp\solana-install-init.exe v1.18.4
```

Close and re open the command prompt, this time as a normal user
Check the installation with

```
solana --version
```

To get help run

```
solana --help
```

Create a keypair

```
mkdir ~/my-solana-wallet
```

```
solana-keygen new --outfile ~/my-solana-wallet/my-keypair.json
```

display the result with

```
solana-keygen pubkey ~/my-solana-wallet/my-keypair.json
```

verify your address

```
solana-keygen verify <PUBKEY> ~/my-solana-wallet/my-keypair.json
```

Connect to the dev network

```
solana config set --url https://api.devnet.solana.com
```

You can check the configuration with

```
solana config get
```

Get some tokens from dev net

```
solana airdrop 1 <RECIPIENT_ACCOUNT_ADDRESS> --url
https://api.devnet.solana.com
```

you will receive the transaction ID, and can look for this on the [dev net block explorer](#)

You can also check your balance with

```
solana balance <ACCOUNT_ADDRESS> --url
https://api.devnet.solana.com
```

Installing other wallets

Try one of the following wallets :

1. Phantom wallet

download the [extension](#) for the chrome / brave browser

The Phantom wallet is available as a mobile download application and a browser extension tool for various desktop web browsers. Wallet allows users to generate new accounts or to import existing ones with the seed phrase. Phantom presents a graphical user interface (GUI) to mask the technicalities of signing transactions and storing funds. It also has an inbuilt swap and stake functionality.

2. Solflare Wallet

   download [extension](#) for the chrome / brave browser

Try interacting with Apps on the Dev network

For example

https://devnet.zeta.markets/

> they air drop you some test USDC for you to use in their app.

Extra Credit

Recommended reading from the Rust book:

- [Arrays and Slices](#)
- [Macros](#)
- [HashMaps](#)
- [Matching](#)
- [Tests in Rust](#)