To run the application, make sure you install Node.js first.

In root dir of the application. Run `npm install`

Before running, you can change the configurations in the ‘src/constants.ts’ file.

Decrypt the enigma message of the HW: `npm start`

Run tests: `npm t`

Run with profiler `npm run profile`

Task 1:

Implemented a similar OO of the example in the homework.

Substitutor:

Abstract class implementing shifts, and describing forward and backward translations

Translator:

Concrete class implementing translations over permutations

Reflector:

Concrete class extending translations symmetrically

PlugBoard:

Concrete class, substituting values given by the provided spec

Rotor:

Concrete class, translating over permutations given a state of the ringSetting and the ringOffset

Enigma:

Concrete class, translating complete messages with its’ components