Some code template

Some shell code.

Some shell code for a Marlowe contract.

```
When
    Case
        (Deposit
            (Role "Alice")
            (Role "Alice")
            (Token "" "")
            (Constant 10)
        (When
            Case
                 (Deposit
                     (Role "Bob")
                     (Role "Bob")
                     (Token "" "")
                     (Constant 10)
                 (When
                     Case
                         (Choice
                             (ChoiceId
                                 "Winner"
                                 (Role "Charlie")
```

```
Bound 1 2]
                     (If
                          (ValueEQ
                              (ChoiceValue
                                  (ChoiceId
                                       "Winner"
                                      (Role "Charlie")
                              (Constant 1)
                          (Pay
                              (Role "Bob")
                              (Account (Role "Alice"))
                              (\mathsf{Token} \ "" \ "")
                              (Constant 10)
                              Close
                          (Pay
                              (Role "Alice")
                              (Account (Role "Bob"))
                              (Token "" "")
                              (Constant 10)
                              Close
                1682551111000 Close
        1682552111000 Close
1682553111000 Close
```

Two haskell types.

Some Haskell code.

```
{-# LANGUAGE DataKinds
{-# LANGUAGE ImportQualifiedPost #-}
{-# LANGUAGE NoImplicitPrelude #-}
{-# LANGUAGE TemplateHaskell #-}
module Gift where
import qualified Plutus.V2.Ledger.Api as PlutusV2
        PlutusTx (BuiltinData, compile)
Prelude (TO)
import
import
                               (IO)
        Utilities (writeValidatorToFile)
import
----- ON-CHAIN CODE / VALIDATOR -----
-- This validator always succeeds
                  Datum
                              Redeemer ScriptContext
mkGiftValidator :: BuiltinData -> BuiltinData -> BuiltinData -> ()
mkGiftValidator _ _ = ()
{-# INLINABLE mkGiftValidator #-}
validator :: PlutusV2.Validator
validator = PlutusV2.mkValidatorScript $$(PlutusTx.compile)
                                 [|| mkGiftValidator ||])
----- HELPER FUNCTIONS ------
saveVal :: IO ()
saveVal = writeValidatorToFile "./gift.plutus" validator
```

Some typescript code.

```
import {
    Data.
    Lucid.
    Blockfrost,
} from "https://deno.land/x/lucid@0.9.1/mod.ts"
// create a seed.ts file with your seed
import { secretSeed } from "./seed.ts"
// set blockfrost endpoint
const lucid = await Lucid.new(
  new Blockfrost(
    "https://cardano-preview.blockfrost.io/api/v0",
    "insert your own api key here"
  "Preview"
// load local stored seed as a wallet into lucid
lucid selectWalletFromSeed(secretSeed);
const addr: Address = await lucid.wallet.address();
console.log(addr);
// An asynchronous function that sends an amount of Lovelace to the script
// with the above datum.
async function vestFunds(amount: bigint): Promise<TxHash> {
    const dtm: Datum = Data.to<VestingDatum>(datum, VestingDatum);
    const tx = await lucid
      newTx()
      .payToContract(vestingAddress, { inline: dtm }, { lovelace: amount })
    const signedTx = await tx.sign().complete();
    const txHash = await signedTx.submit();
    return txHash
console.log(await vestFunds(100000000n));
```