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"))
                            (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
                                     (BuiltinData, compile)
import
                PlutusTx
import
              Prelude
                                     (I0)
import
              Utilities
                                     (writeValidatorToFile)
mkGiftValidator :: BuiltinData -> BuiltinData -> BuiltinData -> ()
mkGiftValidator _ _ =
{-# INLINABLE mkGiftValidator #-}
validator :: PlutusV2.Validator
validator = PlutusV2.mkValidatorScript $$(PlutusTx.compile)
                                       [|| mkGiftValidator ||])
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"
import { secretSeed } from "./seed.ts"
const lucid = await Lucid.new(
  new Blockfrost(
    "https://cardano-preview.blockfrost.io/api/v0",
    "insert your own api key here"
  "Preview"
lucid.selectWalletFromSeed(secretSeed);
const addr: Address = await lucid.wallet.address();
console.log(addr);
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 })
      .complete();
    const signedTx = await tx.sign().complete();
    const txHash = await signedTx.submit();
    return txHash
console.log(await vestFunds(100000000n));
```