## 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
                                  (Role "Charlie")
```

```
[Bound 1 2]
                    (If
                         (ValueEQ
                             (ChoiceValue
                                 (ChoiceId
                                     (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)
               PlutusTx
              Prelude
                                    (I0)
         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",
  ),
);
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));
```