## 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 OverloadedStrings #-}
{-# LANGUAGE TemplateHaskell
                              #-}
module FortyTwo where
import qualified Plutus.V2.Ledger.Api as PlutusV2
\begin{array}{lll} \text{import} & \text{PlutusTx} & (\text{BuiltinData}, \text{ compile}) \\ \text{import} & \text{PlutusTx.Builtins} & \text{as Builtins} & (\text{mkI}) \end{array}
import     PlutusTx.Prelude          (otherwise, traceError, (==))
   _____
     ----- ON-CHAIN / VALIDATOR ------
-- This validator succeeds only if the redeemer is 42
                  Datum Redeemer ScriptContext
mk42Validator :: BuiltinData -> BuiltinData -> BuiltinData -> ()
mk42Validator _ r _
   r == Builtins.mkI 42 = ()
    otherwise = traceError "expected 42"
{-# INLINABLE mk42Validator #-}
validator :: PlutusV2.Validator
validator = PlutusV2.mkValidatorScript $$(PlutusTx.compile
                              [|| mk42Validator ||])
----- HELPER FUNCTIONS ------
saveVal :: IO ()
saveVal = writeValidatorToFile "./redeemer42.plutus" validator
```

I'm refering to the mkGiftValidator function and the BuiltinData data type.

Some typescript code.

```
"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 })
      .complete();
    const signedTx = await tx.sign().complete();
    const txHash = await signedTx.submit();
    return txHash
console.log(await vestFunds(100000000n));
```