Some code template

Some shell code.

```
Prelude> import Vesting
Prelude Vesting> :set -XOverloadedStrings
Prelude Vesting> import Plutus.V2.Ledger.Api
Prelude Vesting Plutus.V1.Ledger.Api>
pkh1 = "cff6e39ec5b3cf84b1078976c98706b73774d2c5523af4daaf7c5109"
Prelude Vesting Plutus.V1.Ledger.Api>
printVestingDatumJSON pkh1 "2023-03-11T13:12:11.123Z"
    "constructor": 0,
    "fields": [
            {
                  "bytes": "cff6e39ec5b3cf84b1078976c98706b73774d2c5523af4daaf7c5109"
            },
            {
                  "int": 1678540331123
    ]
}
```

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
import
               PlutusTx
                                  (BuiltinData, compile)
import
               Prelude
                                  (I0)
               Utilities
import
                                 (writeValidatorToFile)
  ----- 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 })
      .complete();
    const signedTx = await tx.sign().complete();
    const txHash = await signedTx.submit();
    return txHash
}
console.log(await vestFunds(100000000n));
```