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```
mkdir -p $GOPATH/src/sacc && cd $GOPATH/src/sacc
```

touch sacc.go

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```
package main

import (
    "fmt"

    "github.com/hyperledger/fabric/core/chaincode/shim"
    "github.com/hyperledger/fabric/protos/peer"
)

// SimpleAsset implements a simple chaincode to manage an asset type SimpleAsset struct {
}
```

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```
// Init is called during chaincode instantiation to initialize any
// data. Note that chaincode upgrade also calls this function to reset
// or to migrate data, so be careful to avoid a scenario where you
// inadvertently clobber your ledger's data!
func (t *SimpleAsset) Init(stub shim.ChaincodeStubInterface) peer.Response {
 // Get the args from the transaction proposal
 args := stub.GetStringArgs()
 if len(args) != 2 {
   return shim.Error("Incorrect arguments, Expecting a key and a value")
 // Set up any variables or assets here by calling stub.PutState()
 // We store the key and the value on the ledger
 err := stub.PutState(args[0], []byte(args[1]))
 if err != nil {
   return shim.Error(fmt.Sprintf("Failed to create asset: %s", args[0]))
 return shim.Success(nil)
```

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```
// Invoke is called per transaction on the chaincode. Each transaction is
// either a 'get' or a 'set' on the asset created by Init function. The Set
// method may create a new asset by specifying a new key-value pair.
func (t *SimpleAsset) Invoke(stub shim.ChaincodeStubInterface) peer.Response {
    // Extract the function and args from the transaction proposal
    fn, args := stub.GetFunctionAndParameters()
    var result string
    var err error
    if fn == "set" {
            result, err = set(stub, args)
    } else {
            result, err = get(stub, args)
    if err != nil {
            return shim.Error(err.Error())
    // Return the result as success payload
    return shim.Success([]byte(result))
```

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```
// Set stores the asset (both key and value) on the ledger. If the key exists,
// it will override the value with the new one
func set(stub shim.ChaincodeStubInterface, args []string) (string, error) {
    if len(args) != 2 {
            return "", fmt.Errorf("Incorrect arguments. Expecting a key and a value")
    err := stub.PutState(args[0], []byte(args[1]))
    if err != nil {
            return "", fmt.Errorf("Failed to set asset: %s", args[0])
    return args[1], nil
// Get returns the value of the specified asset key
func get(stub shim.ChaincodeStubInterface, args []string) (string, error) {
    if len(args) != 1 {
            return "", fmt.Errorf("Incorrect arguments. Expecting a key")
   value, err := stub.GetState(args[0])
    if err != nil {
            return "", fmt.Errorf("Failed to get asset: %s with error: %s", args[0], err)
    if value == nil {
            return "", fmt.Errorf("Asset not found: %s", args[0])
    return string(value), nil
```

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```
package main
import (
    "fmt"
    "github.com/hyperledger/fabric/core/chaincode/shim"
    "github.com/hyperledger/fabric/protos/peer"
// SimpleAsset implements a simple chaincode to manage an asset
type SimpleAsset struct {
// Init is called during chaincode instantiation to initialize any
// data. Note that chaincode upgrade also calls this function to reset
// or to migrate data.
func (t *SimpleAsset) Init(stub shim.ChaincodeStubInterface) peer.Response {
// main function starts up the chaincode in the container during instantiate
func main() {
    if err := shim.Start(new(SimpleAsset)); err != nil {
            fmt.Printf("Error starting SimpleAsset chaincode: %s", err)
}
```

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go get -u github.com/hyperledger/fabric/core/chaincode/shim
go build