

Homework 7 Answer

Also see this [gist](#)

```
%lang starknet

from starkware.cairo.common.cairo_builtins import HashBuiltin
from openzeppelin050.access.ownable.library import Ownable

@constructor
func constructor{
    syscall_ptr: felt*,
    pedersen_ptr: HashBuiltin*,
    range_check_ptr
}(owner: felt) {
    Ownable.initializer(owner);
    return ();
}

// Define a storage variable.
@storage_var
func balance() -> (res: felt) {
}

// Returns the current balance.
@view
func get_balance{
    syscall_ptr: felt*,
    pedersen_ptr: HashBuiltin*,
    range_check_ptr,
}() -> (res: felt) {
    let (res) = balance.read();
    return (res=res);
}

// Sets the balance to amount
// Access restricted to Owner
@external
func set_balance{
    syscall_ptr: felt*,
```

```
    pedersen_ptr: HashBuiltin*,  
    range_check_ptr,  
(amount: felt) {  
    Ownable.assert_only_owner();  
    balance.write(amount);  
    return ();  
}
```