

# Homework 6

## Assembly 2

1. Create a Solidity contract with one function  
The solidity function should return the amount of ETH that was passed to it, and the function body should be written in assembly
2. Do you know what this code is doing ?

[illegible]

```

push1 23                # 23 CS
returndatasize           # 0 23 CS
dup3                     # CS 0 23 CS

dup3                     # 23 CS 0 23 CS
callvalue                # v 23 CS 0 23 CS
create                   # addr1 0 23 CS
pop                      # 0 23 CS

create                   # addr2

selfdestruct

```

See [gist](#)

The runtime bytecode for this contract is

```

0x68601e8060093d393df35952383d59396009380160173d828234
f050f0ff

```

3. Explain what the following code is doing in the Yul ERC20 contract

```

function allowanceStorageOffset(account, language-js
spender) -> offset {
    offset :=
accountToStorageOffset(account)
    mstore(0, offset)
    mstore(0x20, spender)
    offset := keccak256(0, 0x40)
}

```