## **Lesson 7 Documentation**

## Fundme.sol

```
function cheaperWithdraw() public payable onlyOwner {
   address[] memory funders = s_funders;
   // mappings can't be in memory, sorry!
   for (
        uint256 funderIndex = 0;
        funderIndex < funders.length;
        funderIndex++
   ) {
        address funder = funders[funderIndex];
        s_addressToAmountFunded[funder] = 0;
   }
   s_funders = new address[](0);
   // payable(msg.sender).transfer(address(this).balance);
   (bool success, ) = i_owner.call{value: address(this).balance}("");
   require(success);
}

function getAddressToAmountFunded(address fundingAddress)
   public
   view
   returns (uint256)
   {
     return s_addressToAmountFunded[fundingAddress];
}</pre>
```

```
function getVersion() public view returns (uint256) {
    return s_priceFeed.version();
}function getFunder(uint256 index) public view returns (address) {
    return s_funders[index];
}function getOwner() public view returns (address) {
    return i_owner;
}function getPriceFeed() public view returns (AggregatorV3Interface) {
    return s_priceFeed;
}
```

## Funwithstorage.sol

```
pragma solidity ^0.8.0;
contract FunWithStorage {
    uint256 favoriteNumber; // Stored at slot 0
    bool someBool; // Stored at slot 1
    uint256[] myArray; /* Array Length Stored at slot 2,
    mapping(uint256 => bool) myMap; /* An empty slot is held at slot 3
    uint256 constant NOT IN STORAGE = 123;
    uint256 immutable i_not_in_storage;
    constructor() {
        favoriteNumber = 25; // See stored spot above // SSTORE
        someBool = true; // See stored spot above // SSTORE
        myArray.push(222); // SSTORE
        myMap[0] = true; // SSTORE
        i_not_in_storage = 123;
    function doStuff() public {
        uint256 newVar = favoriteNumber + 1; // SLOAD
bool otherVar = someBool; // SLOAD
```

## Priceconverter.sol