```
pragma solidity ^0.4.17;
```

```

contract Coinflip {
address owner;

function Coinflip() public{
owner = msg.sender;
}

function getBalance() constant public returns (uint){
return address(this).balance;
}

function flip() payable public{
uint time = block.timestamp;
uint bet = msg.value;

if(time % 2 == 0){
msg.sender.transfer(bet*2);
}
}
}
```

```
(function (Contract) {
var web3;
var instance;

function init(cb) {
web3 = new Web3(
(window.web3 &&
window.web3.currentProvider)
||
new
Web3.providers.HttpProvider(Co
ntract.endpoint));

```

```
var contract_interface = web3.eth.contract(Contract.abi);
instance = contract_interface.at(Contract.address);
cb();
}

function getMessage(cb) {
instance.message(function (error, result) {
cb(error, result);
});
}

$(document).ready(function () {
init(function () {
getMessage(function (error, result) {
if (error) {
console.error("Could not get article:", error);
return;
}
$('#message').append(result);
});
});
});
})(Contracts['HelloWorld']);
```

```
pragma solidity ^0.4.17;

contract Coinflip {
address owner;
```

```
    mapping(address => bool) lastFlip;

    function Coinflip() public{
    owner = msg.sender;
    }

    function getBalance() constant public returns (uint){
    return address(this).balance;
    }

    function getLastFlip(address player) constant public returns (bool){
    return lastFlip[player];
    }

    function flip() payable public{
    uint time = block.timestamp;
    uint bet = msg.value;

    if(time % 2 == 0){
    msg.sender.transfer(bet*2);
    lastFlip[msg.sender] = true;
    }
    else{
    lastFlip[msg.sender] = false;
    }
    }

    function deposit() payable public {

    }
    }
```

```
(function (Contract) {
    var web3_instance;
    var instance;
    var accounts;

    function init(cb) {
        web3_instance = new Web3(
            (window.web3 &&
            window.web3.currentProvider)
            ||
            new
            Web3.providers.HttpProvider(Co
            ntract.endpoint));

        accounts = web3.eth.accounts;

        var contract_interface =
        web3_instance.eth.contract(Con
        tract.abi);
        instance =
        contract_interface.at(Contract
        .address);
        cb();
    }

    function getBalance() {
        instance.getBalance(function
        (error, result) {
            if(error){
                alert(error);
            }
            else{
                $
                ("#balance").html(result.toStr
                ing());
            }
        });
    }

    function
    waitForReceipt(txHash, cb){
```

```
web3_instance.eth.getTransactionReceipt(txHash, function(error, receipt){
if(error){
alert(error);
}
else if(receipt !== null){
cb(receipt);
}
else{
window.setTimeout(function(){
waitForReceipt(txHash, cb);
}, 5000);
}
})
}

function getResult(){
instance.getLastFlip(accounts[0], function(error, result){
if(result){
$("#result").html("You won!");
}
else{
$("#result").html("You lost!");
}
});
}

function flip(){
let val = parseInt($("#bet").val());
instance.flip.sendTransaction({from: accounts[0], gas:100000, value: val}, function(error, txHash){
if(error){
alert(error);
}
```

```
                else{
                waitForReceipt(txHash, function(receipt){
                if(receipt.status === "0x1"){
                getResult();
                getBalance();
                }
                else{
                alert("receipt status fail");
                }
                });
                }
                })
                }

                $(document).ready(function () {
                init(function () {
                getBalance();
                });
                $("#submit").click(function(){
                flip();
                })
                });
                })(Contracts['Coinflip']);
```

```
<!DOCTYPE html>
    <html lang="en">
    <head>
    <script type="text/javascript" src="https://unpkg.com/jquery@3.3.1/dist/jquery.js"></script>
    <script type="text/javascript" src="https://unpkg.com/web3@0.20.5/dist/web3.min.js"></script>
    <!-- JAVASCRIPT -->
    <!-- STYLE -->
    </head>
```

```
<body>
<h1>Hello World DApp</h1>
<p>Welcome to the coinflip contract</p>
<h2>Balance: <span id="balance"></span></h2>
<input id="bet" type="number"/>
<button id="submit">Submit</button>
<h3 id="result"></h3>
</body>
</html>
```