

ESCROW SERVICES

INITIAL SETUP

The screenshot shows the Remix Solidity IDE interface. The main editor displays the Solidity code for the `EscrowService` contract. The code is as follows:

```
1 pragma solidity ^0.4.10;
2
3 contract EscrowService {
4     uint balance;
5     address public buyer;
6     address public seller;
7     address public escrow;
8     uint private start;
9     uint buy_ok=1;
10    uint sell_ok=1;
11    bool buyer_ok;
12    bool seller_ok;
13
14
15    function EscrowService(address Buyer, address Seller, address Escrow){
16        buyer = Buyer;
17        seller = Seller;
18    }
19 }
```

The right sidebar contains the following sections:

- Environment:** JavaScript VM (VM (-) i)
- Account:** 0x4b0...4d2db (100 ether)
- Gas limit:** 3000000
- Value:** 0 wei
- EscrowService:** (Dropdown menu)
- Deploy:** (Section header)
- Buyer:** 0xca35b7d915458e540ade6068dfe2f44e81a733c
- Seller:** 0x14723a09acff6d2a60dcdf7aa4aff308fddc160c
- Escrow:** 0x4b0897b0513f9dc7c541b6d9d7e929c4e5364d2db
- transact:** (Button)
- Load contract from Address:** (Text input)
- At Address:** (Button)
- Transactions recorded:** 0
- Deployed Contracts:** (Section header)
- Currently you have no contract instances to interact with.**

This screenshot is identical to the one above, showing the Remix Solidity IDE interface with the `EscrowService` contract code and the right sidebar configuration.

The screenshot shows the Remix Solidity IDE with the `browser/EscrowService.sol` file open. The contract code is as follows:

```
1 pragma solidity ^0.4.10;
2
3 contract EscrowService {
4     uint balance;
5     address public buyer;
6     address public seller;
7     address public escrow;
8     uint private start;
9     uint private end;
10 }
11
```

The right sidebar displays the deployment details for the `EscrowService` contract. The environment is set to `JavaScript VM`. The account is `0x4b0...4d2b (99.9999999999925765 wei)`. The gas limit is `3000000` and the value is `0 wei`. The deployment status is `Deployed`. The `Deploy` section shows the buyer, seller, and escrow addresses. The `Transactions recorded` section shows one transaction. The `Deployed Contracts` section shows the `EscrowService` contract at address `0x804...d9573 (memory)`.

status	0x1 Transaction mined and execution succeed
transaction hash	0xdf063310ca722e21d90788eb545118fa732e9320abfa9938e4e85da50a0e2682
contract address	0x8046085fb6806caa9b19a4cd7b3cd96374dd9573
from	0x4b0897b0513fdc7c541b6d9d7e929c4e5364d2db
to	EscrowService.(constructor)
gas	3000000 gas
transaction cost	742347 gas
execution cost	527999 gas
hash	0xdf063310ca722e21d90788eb545118fa732e9320abfa9938e4e85da50a0e2682
input	0x00...4d2db
decoded input	{ "address Buyer": "0xca35b7d915458ef540ade6068df2f44e8fa733c", "address Seller": "0x14723a09acff602a60dcdf7a4a4ff308fddc160c", "address Escrow": "0x4b0897b0513fdc7c541b6d9d7e929c4e5364d2db" }
decoded output	-

LAB TASK 1: Both parties agrees

The screenshot shows the Remix Solidity IDE with the `browser/ballot.sol` file open. The contract code is as follows:

```
97
98     balance += msg.value;
99     buy_ok = 1;
100     sell_ok = 1;
101     start = now;
102 }
103 //buyer / seller agrees
104 function disagreement() public {
105     // (disagreement logic)
106 }
107
```

The right sidebar displays the deployment details for the `EscrowService` contract. The environment is set to `JavaScript VM`. The account is `0xca3...a733c (89.999999999992823 wei)`. The gas limit is `3000000` and the value is `0 ether`. The deployment status is `Deployed`. The `Deploy` section shows the buyer, seller, and escrow addresses. The `Transactions recorded` section shows two transactions. The `Deployed Contracts` section shows the `EscrowService` contract at address `0x804...d9573 (memory)`.

status	0x1 Transaction mined and execution succeed
transaction hash	0x0df6d22d68c00fd680fee178ba74abf9a6c1b1897fe157f04c89f1c9a855808
from	0xca35b7d915458ef540ade6068df2f44e8fa733c
to	EscrowService.deposit() 0x8046085fb6806caa9b19a4cd7b3cd96374dd9573
gas	3000000 gas
transaction cost	71762 gas
execution cost	50490 gas
hash	0x0df6d22d68c00fd680fee178ba74abf9a6c1b1897fe157f04c89f1c9a855808
input	0xd0e...30db0
decoded input	{}
decoded output	{}
logs	[]
value	10000000000000000000 wei

Remix - Solidity IDE

browser/ballot.sol browser/EscrowService.sol

```

97      balance += msg.value;
98      buy_ok = 1;
99      sell_ok = 1;
100     start = now;
101   }
102
103   //buyer / seller agrees
104   function disagreement() public {
105     if (buy_ok == 1) {
106       //buyer / seller agrees
107     }
108   }
  
```

[vm] from:0xca3...a733c
to:EscrowService.agreement() 0x804...d9573 value:0 wei
data:0x7db...3a946 logs:0 hash:0x379...3eff9

status	0x1 Transaction mined and execution succeed
transaction hash	0x3792c27eda3b42233c8b39dbc43866a4926d3ca7f3c7464edc4115f0e33eff9
from	0xca35b7d915458ef540ade6068dfe2f44e8fa733c
to	EscrowService.agreement() 0x8046085fb6806caa9b19a4cd7b3cd96374dd9573
gas	3000000 gas
transaction cost	53639 gas
execution cost	32367 gas
hash	0x3792c27eda3b42233c8b39dbc43866a4926d3ca7f3c7464edc4115f0e33eff9
input	0x7db...3a946
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment: JavaScript VM
Account: 0xca3...a733c (89.999999999999997459)
Gas limit: 3000000
Value: 0 ether

EscrowService

Deploy

Buyer:
Seller:
Escrow:

transact

Load contract from Address At Address

Transactions recorded: 3

Deployed Contracts

EscrowService at 0x804...d9573 (memory)

Remix - Solidity IDE

browser/ballot.sol browser/EscrowService.sol

```

97      balance += msg.value;
98      buy_ok = 1;
99      sell_ok = 1;
100     start = now;
101   }
102
103   //buyer / seller agrees
104   function disagreement() public {
105     if (buy_ok == 1) {
106       //buyer / seller agrees
107     }
108   }
  
```

[vm] from:0x147...c160c
to:EscrowService.agreement() 0x804...d9573 value:0 wei
data:0x7db...3a946 logs:0 hash:0xf98...a1319

status	0x1 Transaction mined and execution succeed
transaction hash	0xf980b4190e9b13618ebaee450b08f38a493a5f26cc5cb2c32b1d0f88815a1319
from	0x14723a09acffed2a60dcdf7aa4aff308fddc160c
to	EscrowService.agreement() 0x8046085fb6806caa9b19a4cd7b3cd96374dd9573
gas	3000000 gas
transaction cost	45028 gas
execution cost	38756 gas
hash	0xf980b4190e9b13618ebaee450b08f38a493a5f26cc5cb2c32b1d0f88815a1319
input	0x7db...3a946
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment: JavaScript VM
Account: 0x147...c160c (109.89999999999999549)
Gas limit: 3000000
Value: 0 ether

EscrowService

Deploy

Buyer:
Seller:
Escrow:

transact

Load contract from Address At Address

Transactions recorded: 4

Deployed Contracts

EscrowService at 0x804...d9573 (memory)

In the above Images we see that buyer deposits 10 ether as product price due to which the contract time starts. We see that 10 ether is deposited and 1% is given as transaction fee to escrow. Then buyer agrees

to this and then the seller also agrees. When seller agrees we notice that the, 10 ether deposited by the buyer is not deposited into sellers account and similarly we see the changes in the sellers account. Seller is also charged 1% transaction fee to escrow.

LAB 2: Both parties disagree

The screenshot displays the Remix Solidity IDE interface. The main editor shows the Solidity code for the `EscrowService` contract. The right-hand sidebar contains the transaction details and deployment options.

Transaction Details:

status	0x1 Transaction mined and execution succeed
transaction hash	0x5088b3009ecc1efcd2de839e81fef729f0e55e36c318e0b134b2ba4b544be7a6
from	0xca35b7d915458ef540ade0068dfe2f44e8fa733c
to	EscrowService.deposit() 0xa5a2075994ca25397b8dab82e4834c1b09051d57
gas	3000000 gas
transaction cost	71762 gas
execution cost	50490 gas
hash	0x5088b3009ecc1efcd2de839e81fef729f0e55e36c318e0b134b2ba4b544be7a6
input	0xd0e...30db0
decoded input	{}
decoded output	{}
logs	[]
value	1000000000000000000 wei

Deployment Options:

- Environment: JavaScript VM
- Account: 0xca3...a733c (89.999999999999992823)
- Gas limit: 3000000
- Value: 0 ether

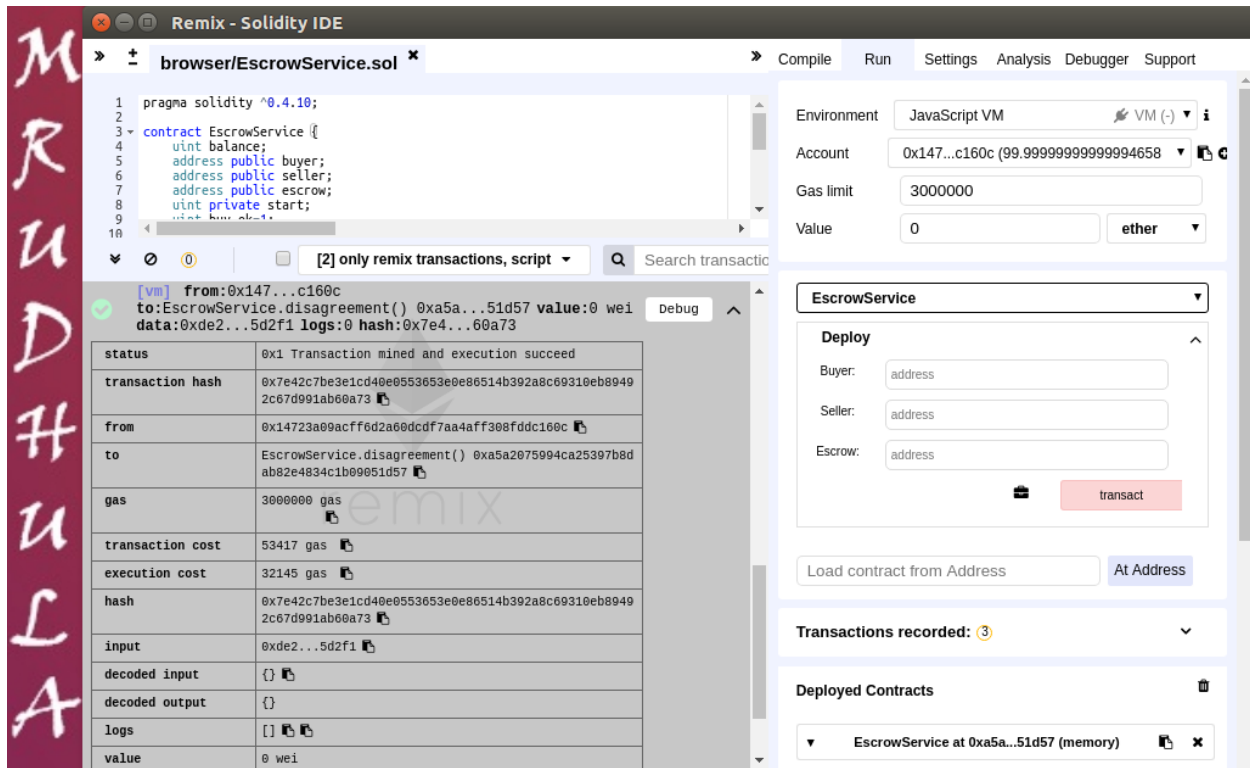
Deploy Section:

- Buyer: address
- Seller: address
- Escrow: address
- transact button

Transactions recorded: 2

Deployed Contracts:

- EscrowService at 0xa5a...51d57 (memory)



Remix - Solidity IDE

browser/EscrowService.sol

```

1 pragma solidity ^0.4.10;
2
3 contract EscrowService {
4     uint balance;
5     address public buyer;
6     address public seller;
7     address public escrow;
8     uint private start;
9     uint private end;
10 }

```

Environment: JavaScript VM

Account: 0x147...c160c (99.999999999999994658)

Gas limit: 3000000

Value: 0 ether

Deploy

Buyer: address

Seller: address

Escrow: address

transact

Load contract from Address At Address

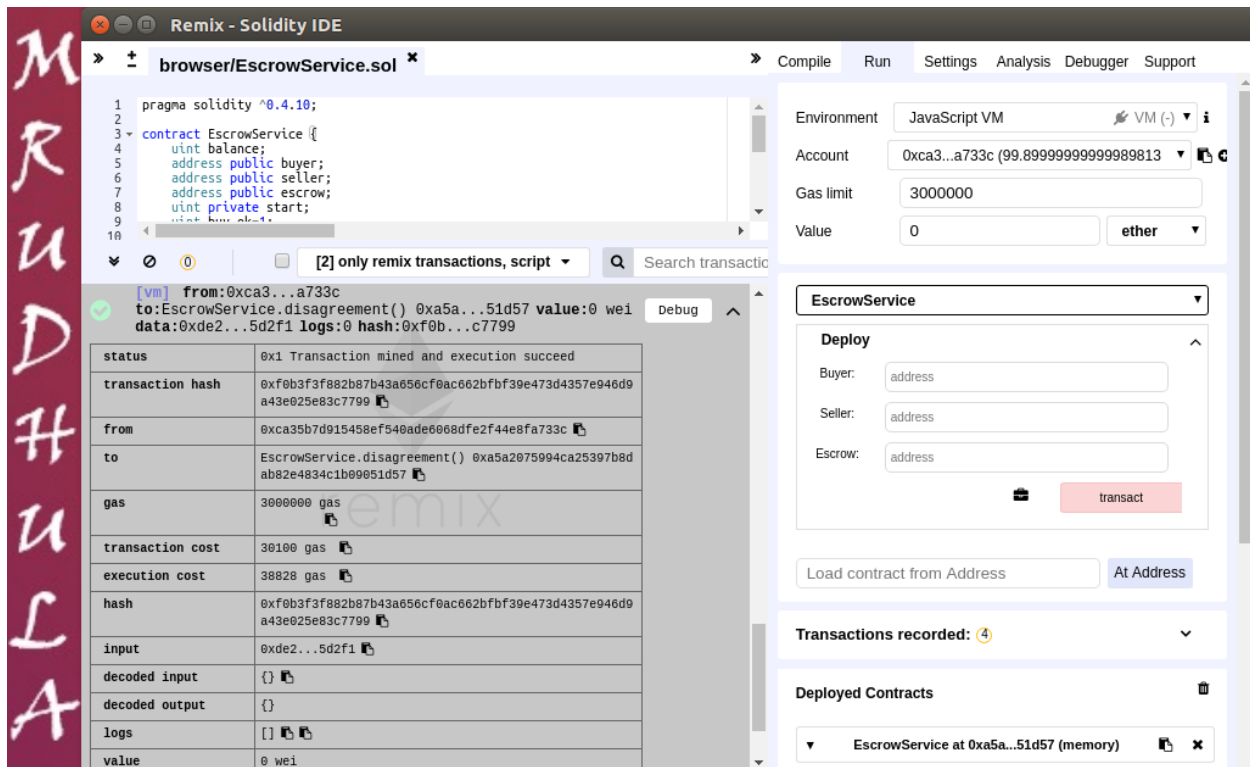
Transactions recorded: 3

Deployed Contracts

EscrowService at 0xa5a...51d57 (memory)

Transaction details:

status	0x1 Transaction mined and execution succeeded
transaction hash	0x7e42c7be3e1cd40e0553653e0e86514b392a8c69310eb89492c67d991ab60a73
from	0x14723a09acff6d2a00dcdf7aa4aff308fddc160c
to	EscrowService.disagreement() 0xa5a2075994ca25397b8dab82e4834c1b09051d57
gas	3000000 gas
transaction cost	53417 gas
execution cost	32145 gas
hash	0x7e42c7be3e1cd40e0553653e0e86514b392a8c69310eb89492c67d991ab60a73
input	0xde2...5d2f1
decoded input	{}
decoded output	{}
logs	[]
value	0 wei



Remix - Solidity IDE

browser/EscrowService.sol

```

1 pragma solidity ^0.4.10;
2
3 contract EscrowService {
4     uint balance;
5     address public buyer;
6     address public seller;
7     address public escrow;
8     uint private start;
9     uint private end;
10 }

```

Environment: JavaScript VM

Account: 0xca3...a733c (99.8999999999999989813)

Gas limit: 3000000

Value: 0 ether

Deploy

Buyer: address

Seller: address

Escrow: address

transact

Load contract from Address At Address

Transactions recorded: 4

Deployed Contracts

EscrowService at 0xa5a...51d57 (memory)

Transaction details:

status	0x1 Transaction mined and execution succeeded
transaction hash	0xf0b3f3f882b87b43a656cf0ac662bfb39e473d4357e946d9a43e025e83c7799
from	0xca35b7d915458ef540ade6068dfe2f44e8fa733c
to	EscrowService.disagreement() 0xa5a2075994ca25397b8dab82e4834c1b09051d57
gas	3000000 gas
transaction cost	30100 gas
execution cost	38828 gas
hash	0xf0b3f3f882b87b43a656cf0ac662bfb39e473d4357e946d9a43e025e83c7799
input	0xde2...5d2f1
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

In the above Images we see that buyer deposits 10 ether as product price due to which the contract time starts. We see that 10 ether is deposited and 1% is given as transaction fee to escrow. Then buyer

disagrees to this and then the seller also disagrees, seller is charged 1% transaction fee to escrow. When both disagree, we notice that the 10 ether deposited by the buyer is deposited back into buyers account.

TASK 3: In case of dispute, one of them agree other don't

(a) Seller agrees but the buyer disagrees

The screenshot displays the Remix IDE interface with the following components:

- Editor:** Shows the Solidity contract `browser/EscrowService.sol` with functions `getSellerAddress()` and `getDepositedAmount()`. A comment indicates a transaction where the buyer agrees but the seller disagrees.
- Environment Panel:**
 - Environment: JavaScript VM
 - Account: 0xca3...a733c (89.999999999999992823)
 - Gas limit: 3000000
 - Value: 0 ether
- Deploy Section:**
 - Contract: EscrowService
 - Deploy button: address Buyer, address Seller, address Escrow
 - Load contract from Address: At Address
- Transactions recorded:** 2
- Deployed Contracts:**
 - EscrowService at 0xe59...6c8ad (memory)
 - Buttons: agreement, deposit, disagreement, disputeTimeout, kill
- Transaction Details Table:**

status	0x1 Transaction mined and execution succeed
transaction hash	0x6146c760a2658f578ef0bb595ad849c62628df15c3bbb0c55ed557d20f9de
from	0xca35b7d915458ef540ade0060dfe2f44e8fa733c
to	EscrowService.deposit() 0xe59092474700e5ab9a0c264e52ae8f5f38d6c8ad
gas	3000000 gas
transaction cost	71762 gas
execution cost	50490 gas
hash	0x6146c760a2658f578ef0bb595ad849c62628df15c3bbb0c55ed557d20f9de
input	0xd0e...30db0
decoded input	{}
decoded output	{}
logs	[]
value	10000000000000000000 wei

Remix - Solidity IDE

browser/EscrowService.sol

```
25 function getSellerAddress() public returns (address){  
26     return seller;  
27 }  
28  
29 function getDepositedAmount() public returns (uint){  
30     return balance;  
31 }  
32 //buyer / seller agrees  
33
```

[vm] from:0xca3...a733c
to:EscrowService.disagreement() 0xe59...6c8ad value:0 wei
data:0xde2...5d2f1 logs:0 hash:0xd1a...2e184

status 0x1 Transaction mined and execution succeed

transaction hash	0xd1a4179a7b0bab02fdf782c7cd4cff6622daf01276999f628e53c9a5f802e184
from	0xca35b7d915458ef540ade6088dfe2f44e8fa733c
to	EscrowService.disagreement() 0xe59692474700e5ab9a0c264e52ae8f5f38d6c8ad
gas	3000000 gas
transaction cost	53711 gas
execution cost	32439 gas
hash	0xd1a4179a7b0bab02fdf782c7cd4cff6622daf01276999f628e53c9a5f802e184
input	0xde2...5d2f1
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment JavaScript VM
Account 0xca3...a733c (89.999999999999987452)
Gas limit 3000000
Value 0 ether

EscrowService

Deploy address Buyer, address Seller, address Escrow

Load contract from Address At Address

Transactions recorded: 3

Deployed Contracts

EscrowService at 0xe59...6c8ad (memory)

agreement
deposit
disagreement
disputeTimeout
kill

Remix - Solidity IDE

browser/EscrowService.sol

```
25 function getSellerAddress() public returns (address){  
26     return seller;  
27 }  
28  
29 function getDepositedAmount() public returns (uint){  
30     return balance;  
31 }  
32 //buyer / seller agrees  
33
```

[vm] from:0x147...c160c
to:EscrowService.agreement() 0xe59...6c8ad value:0 wei
data:0x7db...3a946 logs:0 hash:0x08f...25364

status 0x1 Transaction mined and execution succeed

transaction hash	0x08f7921ad21bf4f4c6f6beef31687c43b516791d43881be9a530f8b596225364
from	0x14723a09acff6d2a60dcdf7aa4aff308fddc160c
to	EscrowService.agreement() 0xe59692474700e5ab9a0c264e52ae8f5f38d6c8ad
gas	3000000 gas
transaction cost	38348 gas
execution cost	17076 gas
hash	0x08f7921ad21bf4f4c6f6beef31687c43b516791d43881be9a530f8b596225364
input	0x7db...3a946
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment JavaScript VM
Account 0x147...c160c (99.999999999999996165)
Gas limit 3000000
Value 0 ether

EscrowService

Deploy address Buyer, address Seller, address Escrow

Load contract from Address At Address

Transactions recorded: 4

Deployed Contracts

EscrowService at 0xe59...6c8ad (memory)

agreement
deposit
disagreement
disputeTimeout
kill

The screenshot shows the Remix - Solidity IDE interface. The left pane displays the Solidity code for `EscrowService.sol`. The middle pane shows the transaction details for a successful transaction. The right pane shows the environment settings and the deployed contracts.

Transaction Details:

status	0x1 Transaction mined and execution succeed
transaction hash	0xd102d3971c46f97e63c61cf86d71c6e5c774bb67493e8517fbd1d31aebf3d451
from	0x4b0897b0513fdc7c541b6d9d7e929c4e5364d2db
to	EscrowService.disputeTimeout() 0xe59692474700e5ab9a0c264e52ae8f5f38d6c8ad
gas	3000000 gas
transaction cost	22428 gas
execution cost	1156 gas
hash	0xd102d3971c46f97e63c61cf86d71c6e5c774bb67493e8517fbd1d31aebf3d451
input	0xc04...c22a4
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment Settings:

- Environment: JavaScript VM
- Account: 0x4b0...4d2db (99.99999999999923522)
- Gas limit: 3000000
- Value: 0 ether

Deployed Contracts:

- EscrowService at 0xe59...6c8ad (memory)
- agreement
- deposit
- disagreement
- disputeTimeout
- kill

The screenshot shows the Remix - Solidity IDE interface. The left pane displays the Solidity code for `EscrowService.sol`. The middle pane shows the transaction details for a successful transaction. The right pane shows the environment settings and the deployed contracts.

Transaction Details:

status	0x1 Transaction mined and execution succeed
transaction hash	0xd102d3971c46f97e63c61cf86d71c6e5c774bb67493e8517fbd1d31aebf3d451
from	0x4b0897b0513fdc7c541b6d9d7e929c4e5364d2db
to	EscrowService.disputeTimeout() 0xe59692474700e5ab9a0c264e52ae8f5f38d6c8ad
gas	3000000 gas
transaction cost	22428 gas
execution cost	1156 gas
hash	0xd102d3971c46f97e63c61cf86d71c6e5c774bb67493e8517fbd1d31aebf3d451
input	0xc04...c22a4
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment Settings:

- Environment: JavaScript VM
- Account: 0xca3...a733c (89.99999999999987452)
- Gas limit: 3000000
- Value: 0 ether

Deployed Contracts:

- EscrowService at 0xe59...6c8ad (memory)
- agreement
- deposit
- disagreement
- disputeTimeout
- kill

Remix - Solidity IDE

browser/EscrowService.sol

```

25  function getSellerAddress() public returns (address){ //:. Calling a view cannot
26      return seller;
27  }
28
29  function getDepositedAmount() public returns (uint){
30      return balance;
31  }
32  //buyer / seller agrees
33  //...

```

[vm] from:0x4b0...4d2db
to:EscrowService.disputeTimeout() 0xe59...6c8ad
value:0 wei data:0xc04...c22a4 logs:0 hash:0x453...9c317

status	0x1 Transaction mined and execution succeed
transaction hash	0x4534f12157398230f668308809e7c7534a46788676ec1ae3f8ff7333a349c317
from	0x4b0897b0513fdc7c541b6d9d7e929c4e5364d2db
to	EscrowService.disputeTimeout() 0xe59692474709e5ab9a0c264e52ae8f5f38d6c8ad
gas	3000000 gas
transaction cost	28807 gas
execution cost	22535 gas
hash	0x4534f12157398230f668308809e7c7534a46788676ec1ae3f8ff7333a349c317
input	0xc04...c22a4
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment: JavaScript VM
Account: 0x4b0...4d2db (100.0999999999992064)
Gas limit: 3000000
Value: 0 ether

EscrowService

Deploy address Buyer, address Seller, address Escrow

Load contract from Address At Address

Transactions recorded: 6

Deployed Contracts

EscrowService at 0xe59...6c8ad (memory)

agreement
deposit
disagreement
disputeTimeout
kill

Remix - Solidity IDE

browser/EscrowService.sol

```

25  function getSellerAddress() public returns (address){ //:. Calling a view cannot
26      return seller;
27  }
28
29  function getDepositedAmount() public returns (uint){
30      return balance;
31  }
32  //buyer / seller agrees
33  //...

```

[vm] from:0x4b0...4d2db
to:EscrowService.disputeTimeout() 0xe59...6c8ad
value:0 wei data:0xc04...c22a4 logs:0 hash:0x453...9c317

status	0x1 Transaction mined and execution succeed
transaction hash	0x4534f12157398230f668308809e7c7534a46788676ec1ae3f8ff7333a349c317
from	0x4b0897b0513fdc7c541b6d9d7e929c4e5364d2db
to	EscrowService.disputeTimeout() 0xe59692474709e5ab9a0c264e52ae8f5f38d6c8ad
gas	3000000 gas
transaction cost	28807 gas
execution cost	22535 gas
hash	0x4534f12157398230f668308809e7c7534a46788676ec1ae3f8ff7333a349c317
input	0xc04...c22a4
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment: JavaScript VM
Account: 0xca3...a733c (99.89999999999987452)
Gas limit: 3000000
Value: 0 ether

EscrowService

Deploy address Buyer, address Seller, address Escrow

Load contract from Address At Address

Transactions recorded: 6

Deployed Contracts

EscrowService at 0xe59...6c8ad (memory)

agreement
deposit
disagreement
disputeTimeout
kill

In the above Images we see that buyer deposits 10 ether as product price due to which the contract time starts, we check the timestamp. We see that 10 ether is deposited and 1% is given as transaction fee to escrow. Then buyer disagrees to this, but the seller agrees, seller is charged 1% transaction fee to escrow.

The escrow calls dispute function due to which, after 2 minutes the value deposited by the buyer is returned back to buyers account (images shown with timestamp).

(b) Seller disagrees but the buyer agrees

The screenshot displays the Remix Solidity IDE interface. The main editor shows the `EscrowService.sol` contract with the following code:

```

25 function getSellerAddress() public returns (address){ // Calling a view cannot
26     return seller;
27 }
28
29 function getDepositedAmount() public returns (uint){
30     return balance;
31 }
32 //buyer / seller agrees
33
34

```

The right sidebar shows the environment settings for the JavaScript VM, including the account `0xca3...a733c` and a gas limit of `3000000`. The value is set to `0` ether.

The transaction details panel shows a successful transaction with the following data:

status	0x1 Transaction mined and execution succeed
transaction hash	0x5623310e3e31a78f2ddaade1ee8a4161ae9a30a1da70415e352fc84578480205
from	0xca35b7d915458ef540ade6008dfe2f44e8fa733c
to	EscrowService.agreement() 0xd4903bb24ad7d7fe4282d8103dde375f2b3d4096
gas	3000000 gas
transaction cost	53639 gas
execution cost	32367 gas
hash	0x5623310e3e31a78f2ddaade1ee8a4161ae9a30a1da70415e352fc84578480205
input	0x7db...3a946
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

The right sidebar also shows the deployed contracts for `EscrowService` at address `0xd49...d4096` (memory). The contract functions listed are `agreement`, `deposit`, `disagreement`, `disputeTimeout`, and `kill`.

Remix - Solidity IDE

browser/EscrowService.sol

```
25 function getSellerAddress() public returns (address){  
26     return seller;  
27 }  
28  
29 function getDepositedAmount() public returns (uint){  
30     return balance;  
31 }  
32 //buyer / seller agrees  
33
```

[vm] from:0x147...c160c
to:EscrowService.disagreement() 0xd49...d4096 value:0 wei
data:0xde2...5d2f1 logs:0 hash:0xaac...74e8d

status 0x1 Transaction mined and execution succeed

transaction hash	0xaac914ab551fde032f0e52b933cb9ad61c090b7b6905141b7d147ee301974e8d
from	0x14723a09acff6d2a00dcdf7aa4aff308fddc160c
to	EscrowService.disagreement() 0xd4903bb24ad7d7fe4282d8103dde375f2b3d4096
gas	3000000 gas
transaction cost	38417 gas
execution cost	17145 gas
hash	0xaac914ab551fde032f0e52b933cb9ad61c090b7b6905141b7d147ee301974e8d
input	0xde2...5d2f1
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment JavaScript VM
Account 0x147...c160c (99.99999999999999158)
Gas limit 3000000
Value 0 ether

EscrowService

Deploy address Buyer, address Seller, address Escrow

Load contract from Address At Address

Transactions recorded: 4

Deployed Contracts

EscrowService at 0xd49...d4096 (memory)

agreement
deposit
disagreement
disputeTimeout
kill

Remix - Solidity IDE

browser/EscrowService.sol

```
25 function getSellerAddress() public returns (address){  
26     return seller;  
27 }  
28  
29 function getDepositedAmount() public returns (uint){  
30     return balance;  
31 }  
32 //buyer / seller agrees  
33
```

[vm] from:0x4b0...4d2db
to:EscrowService.kill() 0xd49...d4096 value:0 wei
data:0x41c...0e1b5 logs:0 hash:0x47e...a19c1

status 0x1 Transaction mined and execution succeed

transaction hash	0x47e61b19e69fe320edaff8e29df952379556eb0f96065929a7bf84c79fda19c1
from	0x4b0897b0513fde7c541b6d9d7e929c4e5364d2db
to	EscrowService.kill() 0xd4903bb24ad7d7fe4282d8103dde375f2b3d4096
gas	3000000 gas
transaction cost	28510 gas
execution cost	22238 gas
hash	0x47e61b19e69fe320edaff8e29df952379556eb0f96065929a7bf84c79fda19c1
input	0x41c...0e1b5
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

Environment JavaScript VM
Account 0x4b0...4d2db (100.099999999999992291)
Gas limit 3000000
Value 0 ether

EscrowService

Deploy address Buyer, address Seller, address Escrow

Load contract from Address At Address

Transactions recorded: 5

Deployed Contracts

EscrowService at 0xd49...d4096 (memory)

agreement
deposit
disagreement
disputeTimeout
kill

Remix - Solidity IDE

browser/EscrowService.sol

```

25 function getSellerAddress() public returns (address){ // Calling a view cannot
26     return seller;
27 }
28
29 function getDepositedAmount() public returns (uint){
30     return balance;
31 }
32 //buyer / seller agrees
33

```

Environment JavaScript VM

Account 0xca3...a733c (99.899999999999987459)

Gas limit 3000000

Value 0 ether

EscrowService

Deploy address Buyer, address Seller, address Escrow

Load contract from Address At Address

Transactions recorded: 5

Deployed Contracts

EscrowService at 0xd49...d4096 (memory)

- agreement
- deposit
- disagreement
- disputeTimeout
- kill

Transaction Details:

status	0x1 Transaction mined and execution succeed
transaction hash	0x47e61b19e09fe320edaff8e29df952379550eb0f90065929a7bf84c79fda19c1
from	0x4b0897b0513fdc7c541b6d9d7e929c4e5364d2db
to	EscrowService.kill() 0xd4903bb24ad7d7fe4282d8103dde375f2b3d4096
gas	3000000 gas
transaction cost	28510 gas
execution cost	22238 gas
hash	0x47e61b19e09fe320edaff8e29df952379550eb0f90065929a7bf84c79fda19c1
input	0x41c...0e1b5
decoded input	{}
decoded output	{}
logs	[]
value	0 wei

In the above Images we see that buyer deposits 10 ether as product price due to which the contract time starts. We see that 10 ether is deposited and 1% is given as transaction fee to escrow. Then buyer agrees to this, but the seller disagrees, seller is charged 1% transaction fee to escrow. The escrow calls kill function due to which the deposited amount is returned back to the buyers account.