

Interface

Interfaces are particularly useful when you want to interact with a contract whose source code you don't have. By knowing the interface, you can call the functions of the external contract

The screenshot shows the Remix IDE interface. On the left, the 'DEPLOY & RUN TRANSACTIONS' panel is active. It shows a contract named 'Calculator - calculator.sol' with EVM version 'Istanbul'. The 'Deploy' button is highlighted. Below it, the 'At Address' button is visible. The 'Transactions recorded' section shows 20 transactions. The 'Deployed Contracts' section shows two contracts: 'CALCULATOR AT 0X438...355BE' and 'AREACALCULATOR AT 0X14A...'. The 'Balance: 0 ETH' is displayed. The 'InchSqFt' button is highlighted, showing a value of 50,68. The '0: uint256: 3400' is also visible.

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 contract Calculator {
5
6     function multi (uint num1, uint num2) external pure returns (uint){
7         return num1*num2;
8     }
9     function divi (uint num1, uint num2) external pure returns (uint){
10        return (num1*100)/num2;
11    }
12    function sub (uint num1, uint num2) external pure returns (uint){
13        return num1-num2;
14    }
15    function add (uint num1, uint num2) external pure returns (uint){
16        return num1+num2;
17    }
18    function modu (uint num1, uint num2) external pure returns (uint){
19        return num1%num2;
20    }
21 }
```

The screenshot shows the Remix IDE interface. On the left, the 'DEPLOY & RUN TRANSACTIONS' panel is active. It shows a contract named 'AreaCalculator - Use_Cal.sol' with EVM version 'Istanbul'. The 'Deploy' button is highlighted, showing the address '0x438eacEBf3F2a1c3E85602773'. Below it, the 'At Address' button is visible. The 'Transactions recorded' section shows 20 transactions. The 'Deployed Contracts' section shows two contracts: 'CALCULATOR AT 0X438...355BE' and 'AREACALCULATOR AT 0X14A...'. The 'Balance: 0 ETH' is displayed. The 'InchSqFt' button is highlighted, showing a value of 50,68. The '0: uint256: 3400' is also visible.

```
1 // SPDX-License-Identifier: MIT
2 pragma solidity ^0.8.0;
3
4 import "./calculator.sol";
5
6 contract AreaCalculator{
7     Calculator Area;
8
9     constructor (address calculator){
10         Area = Calculator(calculator);
11     }
12
13     function InchSqFt (uint Length, uint Width) public view returns (uint) {
14         return Area.multi(Length,Width);
15     }
16 }
```