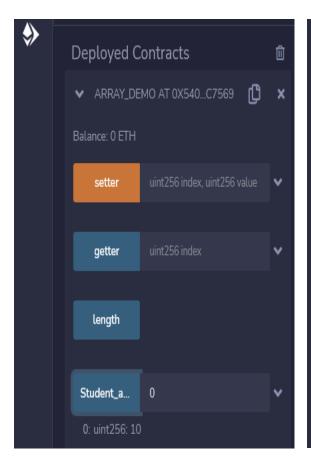
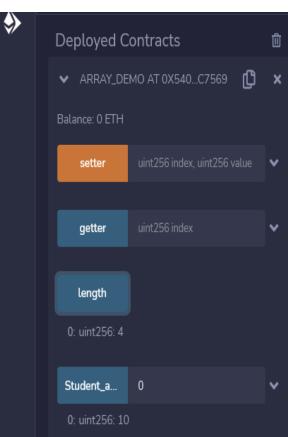
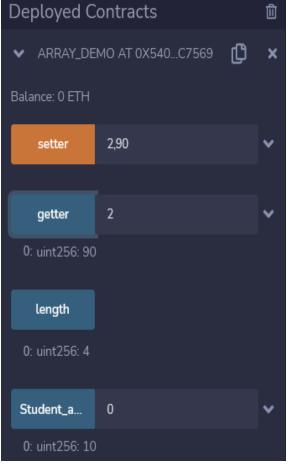
Write a program in solidity to create Student data. Use the following constructs: • Structures • Arrays • Fallback Deploy this as smart contract on Ethereum and Observe the transaction fee and Gas values.

```
//SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.5.0 < 0.9.0;</pre>
contract Array Demo
    //Fixed array
    uint[4] public Student array roll=[10,20,30,40];
    function setter(uint index,uint value)public
    {
        Student_array_roll[index]=value;
    }
    function getter(uint index) view public
returns(uint)
    {
        uint value=Student array roll[index];
        return value;
    }
    function length() public view returns(uint)
        return Student array roll.length;
    }
```

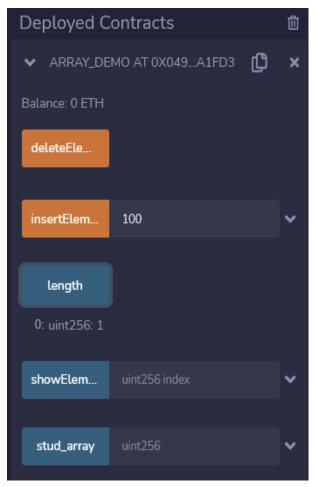


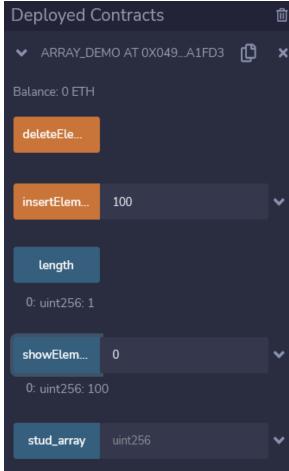


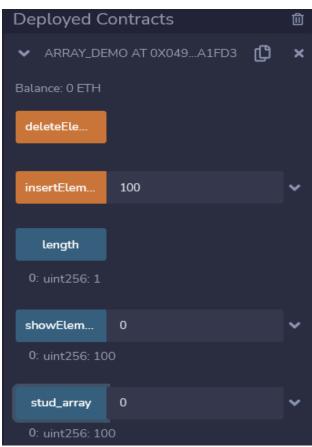


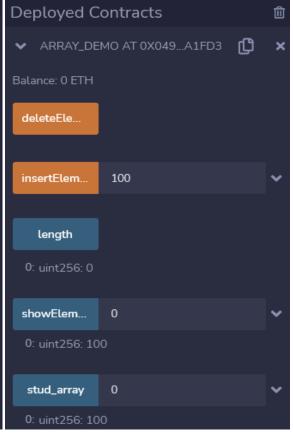


```
//SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.5.0 < 0.9.0;</pre>
contract Array_Demo{
    uint[] public stud_array;
    function insertElement(uint value) public
        stud_array.push(value);
    function showElement(uint index) public view
returns(uint)
    {
        uint value=stud array[index];
        return value;
    function length() public view returns(uint)
    {
        return stud array.length;
    function deleteElement() public
    {
        stud_array.pop();
    }
```









Structure

```
//SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.5.0 < 0.9.0;</pre>
struct Student{
    uint roll;
    string name;
contract Demo
    Student public s1;
    constructor(uint _roll,string memory _name)
        s1.roll= roll;
        s1.name= name;
    }
    function change(uint _roll,string memory _name)
public
    {
        Student memory new stud=Student({
            roll:_roll,
            name:_name
        });
          s1=new stud;
    }
```

