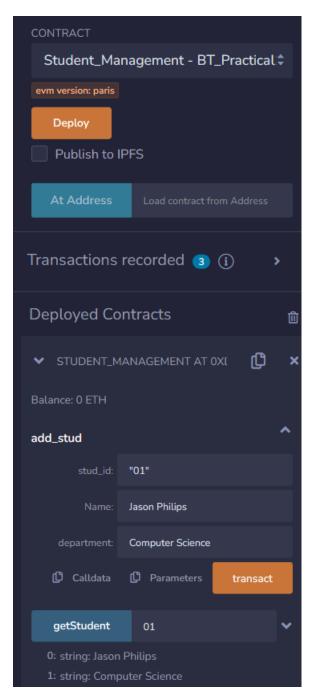
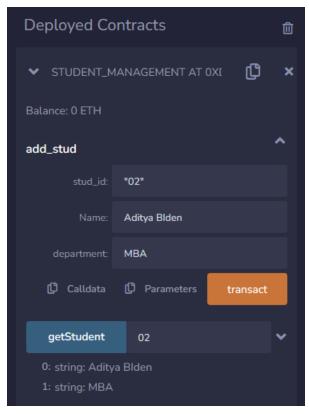
```
Program Code:
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.18;
contract Student_Management{
  struct Student{
    int stud_id;
    string name;
    string department;
  }
  Student[] Students;
  function add_stud(int stud_id,string memory Name, string memory department) public{
    Student memory stud = Student(stud_id,Name,department);
    Students.push(stud);
  }
  function getStudent(int stud_id) public view returns(string memory, string memory) {
    for (uint i= 0;i<Students.length;i++){</pre>
      Student memory stud=Students[i];
      if(stud.stud_id == stud_id){
        return (stud.name,stud.department);
      }
    }
    return ("Not Found", "Not Found");
  }
}
Console Output:
```





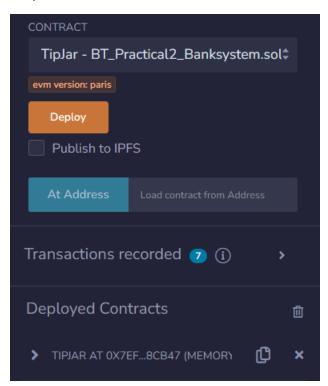
# Practical 3 Smart Contact for Bank system:

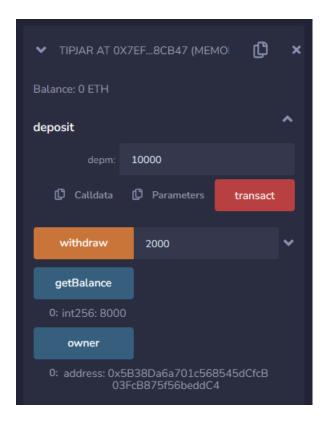
```
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;
contract TipJar {
  int depmoney;
  int withdraw_trans;
  int balance;
  address public owner; // Current owner of the contract
  constructor() {
    owner = msg.sender;
  }
  modifier onlyOwner() {
    require(msg.sender == owner, "Only the owner can call this function");
  }
  function withdraw(int witm) public onlyOwner {
    withdraw_trans= witm;
    depmoney=depmoney-witm;
    payable(owner).transfer(address(this).balance);
  }
  function deposit(int depm) public payable {
   depmoney = depm;
```

```
// No need to specify an amount; the function should be called with the desired value.
}

function getBalance() public view returns (int256) {
    //balance = depmoney;
    return depmoney;
    //address(this).balance;
}
```

# Output Screenshots:





# Deposit:

### WithDraw:

#### Balance:

```
input 0x120...65fe0 C decoded input {} C decoded output { "0": "int256: 8000" }
```