

```

// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

contract StudentData {
    struct Student {
        string name;
        uint256 rollNumber;
        uint256 age;
    }

    Student[] public students;

    event StudentAdded(string name, uint256 rollNumber, uint256 age);

    event FallbackCalled(address sender, uint256 value);

    function addStudent(string memory _name, uint256 _rollNumber, uint256 _age) public
    {
        students.push(Student(_name, _rollNumber, _age));
        emit StudentAdded(_name, _rollNumber, _age);
    }

    function getStudent(uint256 _index) public view returns (string memory, uint256,
        uint256) {
        require(_index < students.length, "Index out of bounds");
        Student memory student = students[_index];
        return (student.name, student.rollNumber, student.age);
    }

    fallback() external payable {
        emit FallbackCalled(msg.sender, msg.value);
    }

    receive() external payable {
        emit FallbackCalled(msg.sender, msg.value);
    }

    function getContractBalance() public view returns (uint256) {
        return address(this).balance;
    }
}

```

Contract Deployment

```
[vm]from: 0x5B3...eddC4to: StudentData.(constructor)value: 0 weidata:
0x608...a0033logs: 0hash: 0xbfa...ca518
status0x1 Transaction mined and execution succeed
transaction hash 0xbfae948d2209635738b6794de04630c98780e144bce5822405b090068a9ca518
block hash 0x7ced1471a40c1d25b12a7127afd040a6f8b7765f785fbf3c910f5b726d4cdbc7
block number 5
contract address 0x7EF2e0048f5bAeDe046f6BF797943daF4ED8CB47
from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to StudentData.(constructor)
gas 760583 gas
transaction cost 661376 gas
execution cost 564398 gas
input 0x608...a0033
output

0x608060405260043610610042575f3560e01c806306ead22e146100bd578063642f9163146100fb578063
682ad06e146101395780636f9fb98a1461016157610082565b36610082577f4fdfaf7cd2ae67f3639149bd
def2addc991d3f26e0121df03517ec62523649ca3334604051610078929190610485565b60
...

decoded input {}
decoded output -
logs []
raw logs []
```

Adding Student

```
[vm]from: 0x5B3...eddC4to: StudentData.addStudent(string,uint256,uint256)
0x7EF...8CB47value: 0 weidata: 0x682...00000logs: 1hash: 0xe78...cd79b
status0x1 Transaction mined and execution succeed
transaction hash 0xe78cc12d945336aa5e33450d8b76effa97815edfc9d52f80fad8799a215cd79b
block hash 0x8993e5dd4d247add692ebedf93dfade9c8fa6a085664b338585874078e4a56f4
block number 6
from 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4
to StudentData.addStudent(string,uint256,uint256)
0x7EF2e0048f5bAeDe046f6BF797943daF4ED8CB47
gas 132294 gas
transaction cost 115038 gas
execution cost 93226 gas
input 0x682...00000
output0x
decoded input {
  "string _name": "Kunal",
  "uint256 _rollNumber": "33",
  "uint256 _age": "20"
}
decoded output {}
logs [
  {
    "from": "0x7EF2e0048f5bAeDe046f6BF797943daF4ED8CB47",
    "topic":
"0xb72ee84ef937eaea5b974fd7578aeb8437a4d8cd7a7062d03255206e0155b354",
    "event": "StudentAdded",
    "args": {
      "0": "Kunal",
      "1": "33",
      "2": "20",
      "name": "Kunal",
      "rollNumber": "33",
      "age": "20"
    }
  }
]
```


