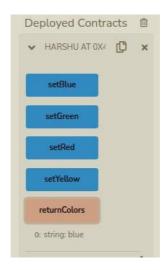
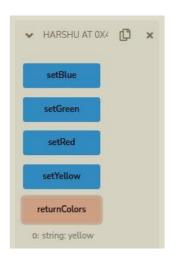
Practical 3: Enums in Solidity

```
pragma solidity ^0.5.0;
contract harshu
  enum Colors{red,blue,green,yellow}
  Colors s;
  function setRed() public{
     s = Colors.red;
  function setBlue() public{
     s = Colors.blue;
  function setGreen() public{
     s = Colors.green;
  }function setYellow() public{
    s = Colors.yellow;
  function returnColors() external view returns(string memory)
    Colors x = s;
    if(x==Colors.red) return "red";
    if(x==Colors.blue) return "blue";
    if(x==Colors.green) return "green";
    if(x==Colors.yellow) return "yellow";
    return "";
  }
}
```









Arrays in Solidity

```
pragma solidity ^0.8.0;
  --operations--
  1. push
  2. pop
  3. delete
  4. display
contract harshu {
  uint[] public arr;
  function get(uint i) public view returns (uint) {
     return arr[i];
  function display() public view returns (uint[] memory) {
     return arr;
  function push(uint i) public {
     arr.push(i);
  function pop() public {
     arr.pop();
  function getLength() public view returns (uint) {
     return arr.length;
  function remove(uint index) public {
     delete arr[index];
  }
```

Output



adding elements



getting length



popping out element



Removing by index

