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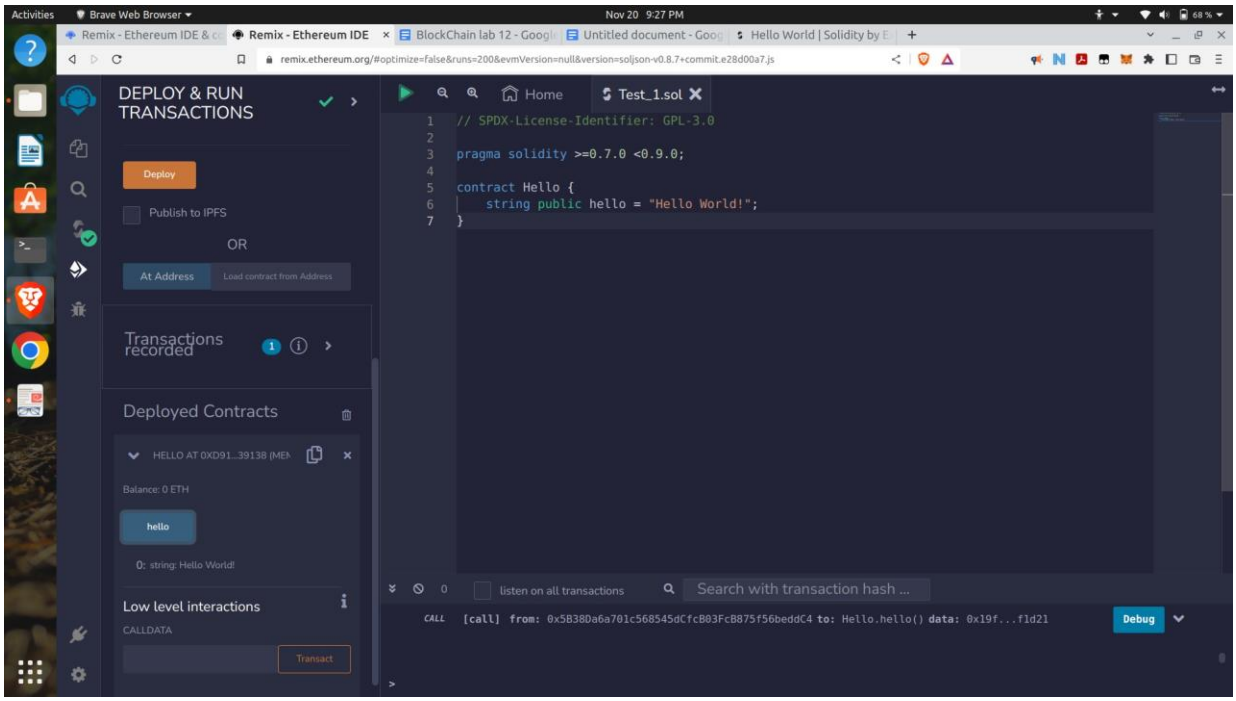
Subject: - Blockchain Technology lab

Aim :- Learn syntactical details of solidity through simple smart contracts

Code 1 :-

```
// SPDX-License-Identifier: GPL-3.0

pragma solidity >=0.7.0 <0.9.0;

contract Hello {
   string public hello = "Hello World!";
}
```

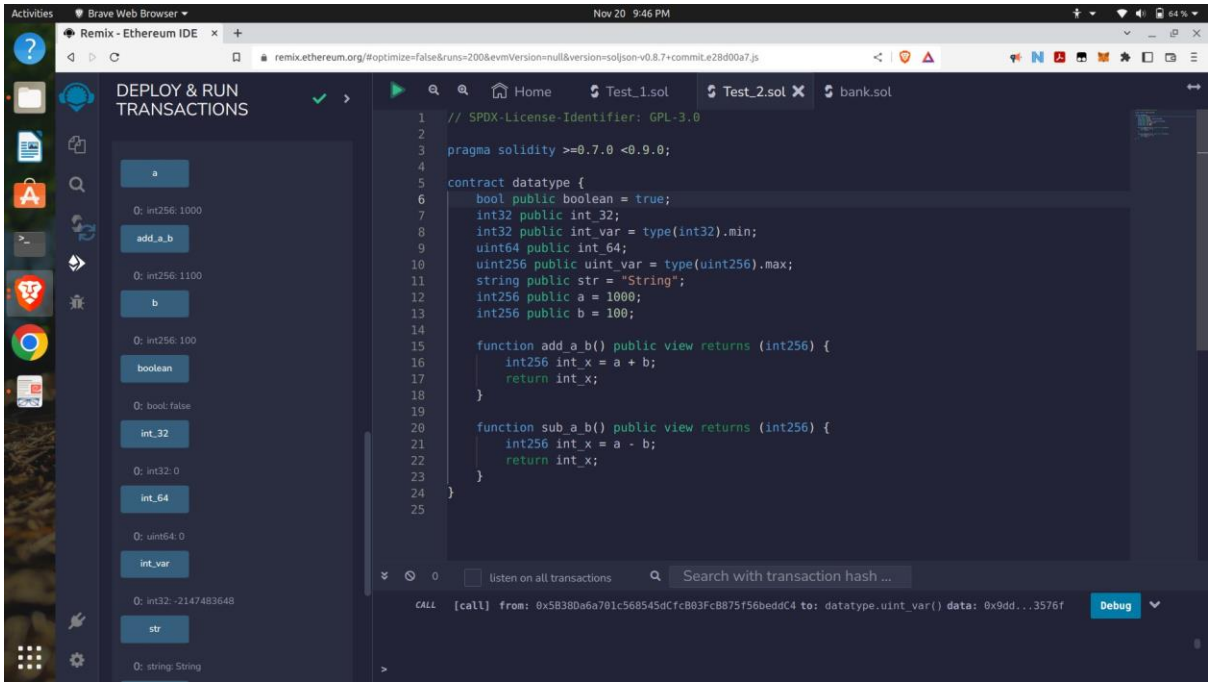
Output 1 :-



Code 2 :-

```
// SPDX-License-Identifier: GPL-3.0

pragma solidity >=0.7.0 <0.9.0;

contract datatype {
   bool public boolean = true;
   int32 public int_32;
   int32 public int_var = type(int32).min;
   uint64 public int_64;
   uint256 public uint_var = type(uint256).max;
   string public str = "String";
   int256 public a = 1000;
   int256 public b = 100;

   function add_a_b() public view returns (int256) {
       int256 int_x = a + b;
       return int_x;
   }

   function sub_a_b() public view returns (int256) {
       int256 int_x = a - b;
       return int_x;
   }
}
```

Output 2 :-


Activities
Brave Web Browser
Nov 20 9:46 PM
Remix - Ethereum IDE
remix.ethereum.org/#optimize=false&runs=200&evmVersion=null&version=soljson-v0.8.7+commit.e28d00a7.js
DEPLOY & RUN TRANSACTIONS
a
0: int256: 1000
add_a_b
0: int256: 1100
b
0: int256: 100
boolean
0: bool: false
int_32
0: int32: 0
int_64
0: uint64: 0
int_var
0: int32: -2147483648
str
0: string: String
Home
Test_1.sol
Test_2.sol
bank.sol
// SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.7.0 <0.9.0;
contract datatype {
bool public boolean = true;
int32 public int_32;
int32 public int_var = type(int32).min;
uint64 public int_64;
uint256 public uint_var = type(uint256).max;
string public str = "String";
int256 public a = 1000;
int256 public b = 100;
function add_a_b() public view returns (int256) {
int256 int_x = a + b;
return int_x;
}
function sub_a_b() public view returns (int256) {
int256 int_x = a - b;
return int_x;
}
}
listen on all transactions
Search with transaction hash ...
CALL [call] from: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4 to: datatype.uint_var() data: 0x9dd...3576f
Debug