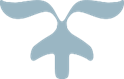


Programming for smart contract

Project work



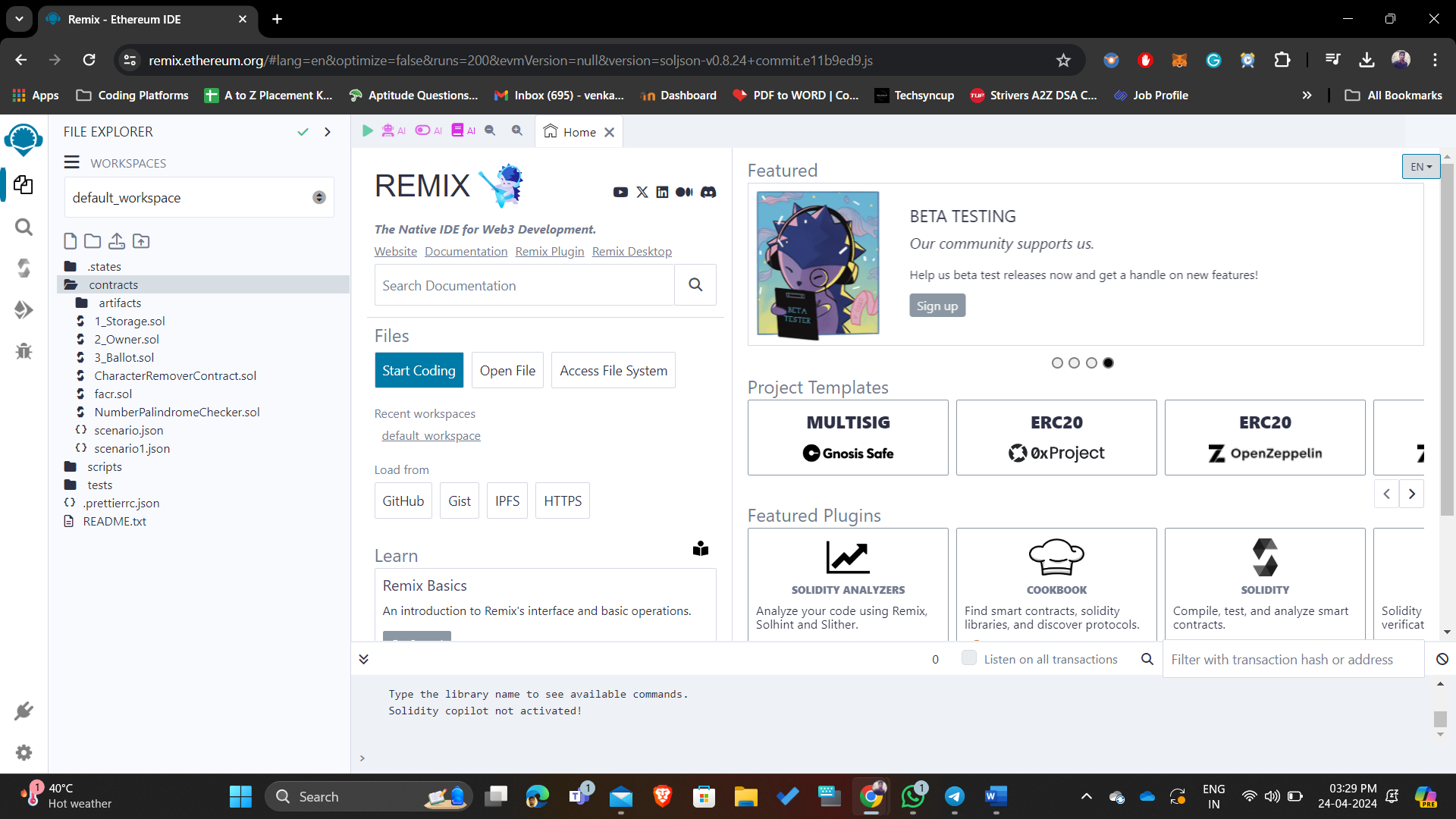
**Reverse a String**

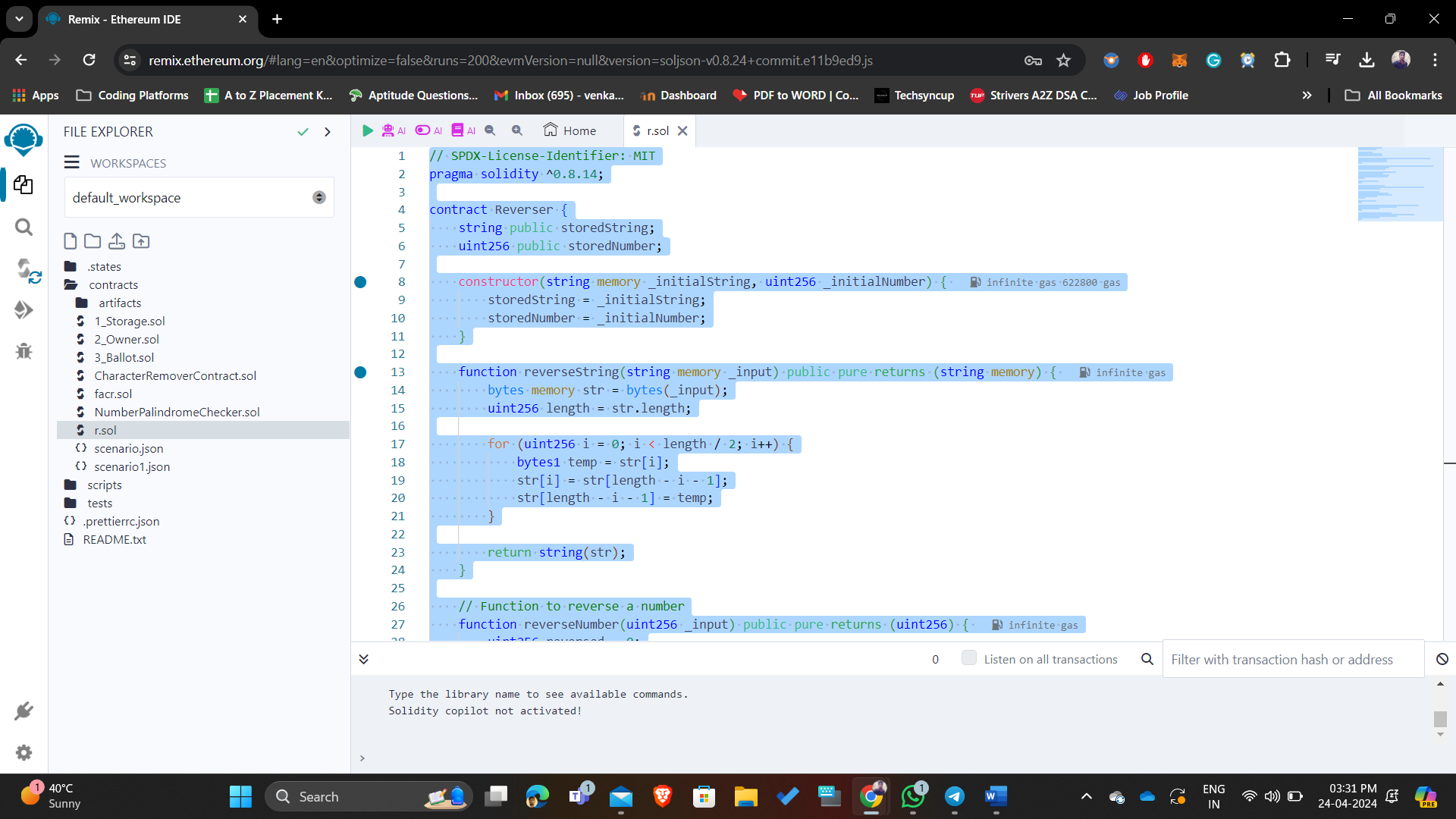
**Id No : 2100030107**

**Name : Ch . Naga Prathap**

**Reverse a String smart contract using solidity**

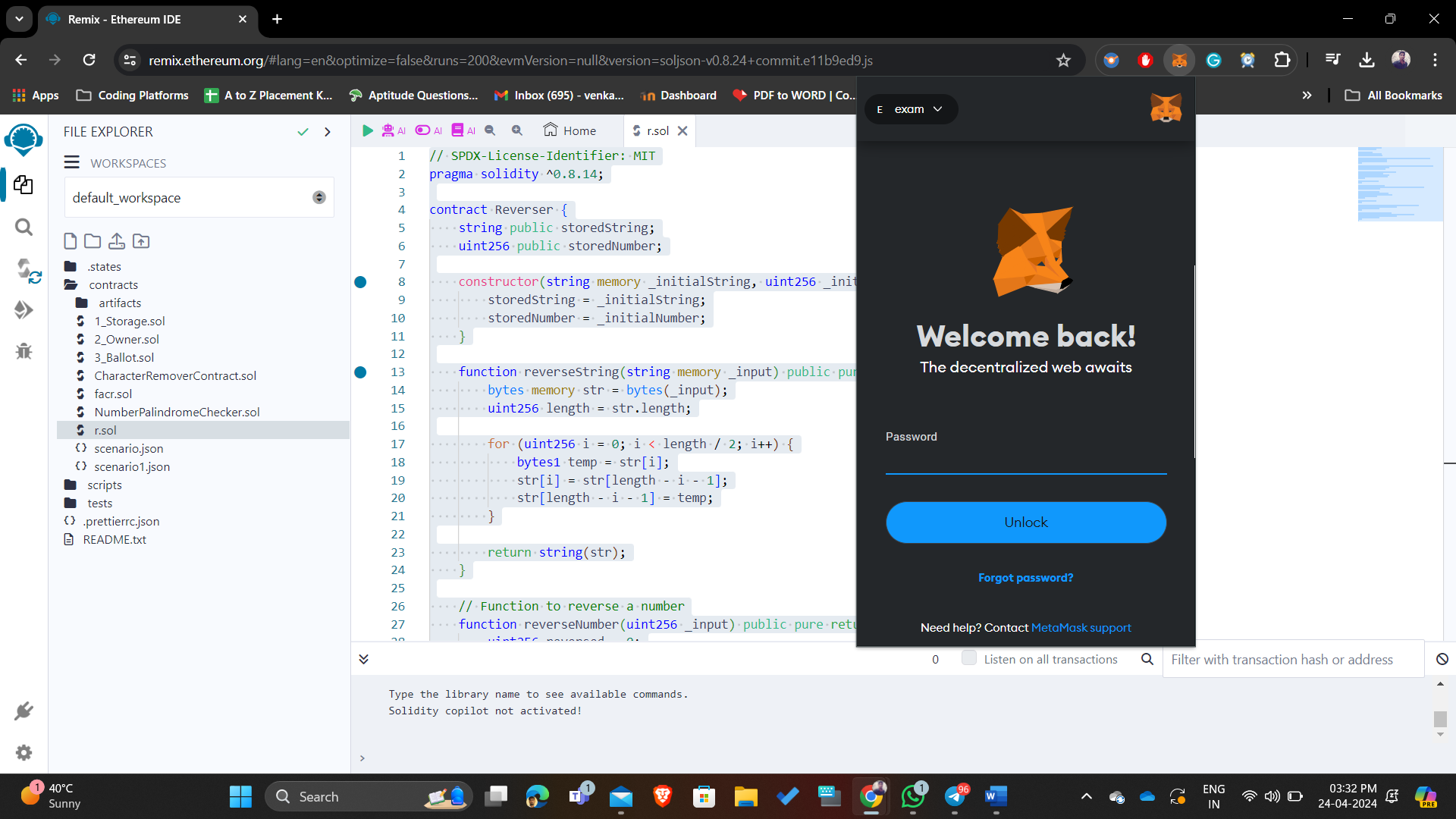
Code and Procedure:





Code

|  |
| --- |
| // SPDX-License-Identifier: MIT  pragma solidity ^0.8.14;  contract Reverser {      string public storedString;      uint256 public storedNumber;      constructor(string memory \_initialString, uint256 \_initialNumber) {          storedString = \_initialString;          storedNumber = \_initialNumber;      }      function reverseString(string memory \_input) public pure returns (string memory) {          bytes memory str = bytes(\_input);          uint256 length = str.length;          for (uint256 i = 0; i < length / 2; i++) {              bytes1 temp = str[i];              str[i] = str[length - i - 1];              str[length - i - 1] = temp;          }          return string(str);      }      // Function to reverse a number      function reverseNumber(uint256 \_input) public pure returns (uint256) {          uint256 reversed = 0;          while (\_input > 0) {              uint256 digit = \_input % 10;              reversed = reversed \* 10 + digit;              \_input /= 10;          }          return reversed;      }      function reverseStoredString() public returns (string memory) {          storedString = reverseString(storedString);          return storedString;      }      // Function to reverse the stored number      function reverseStoredNumber() public returns (uint256) {          storedNumber = reverseNumber(storedNumber);          return storedNumber;      }  } |



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