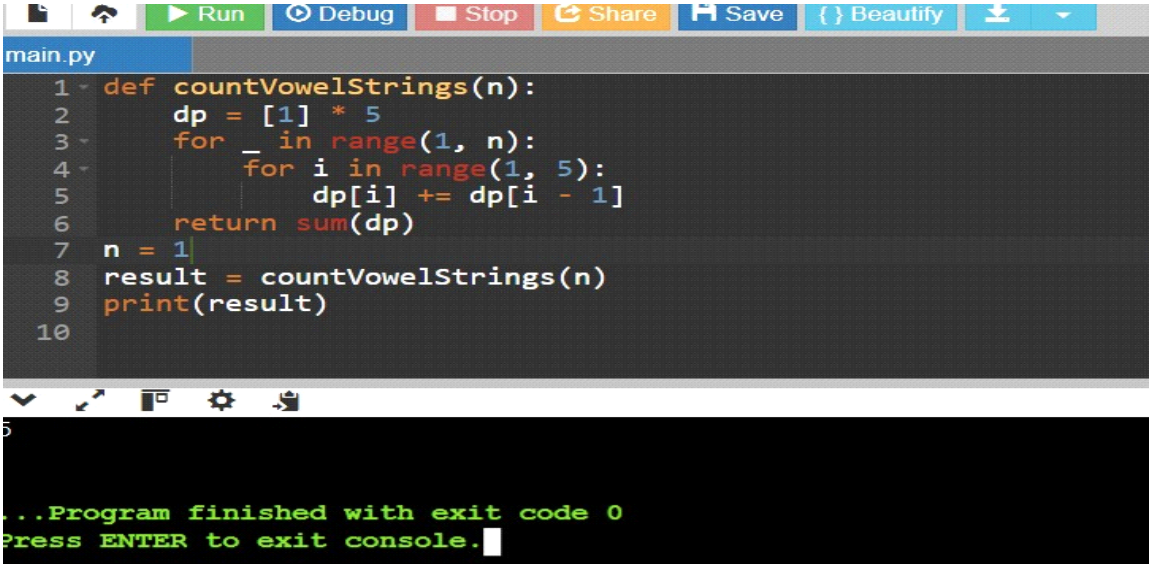
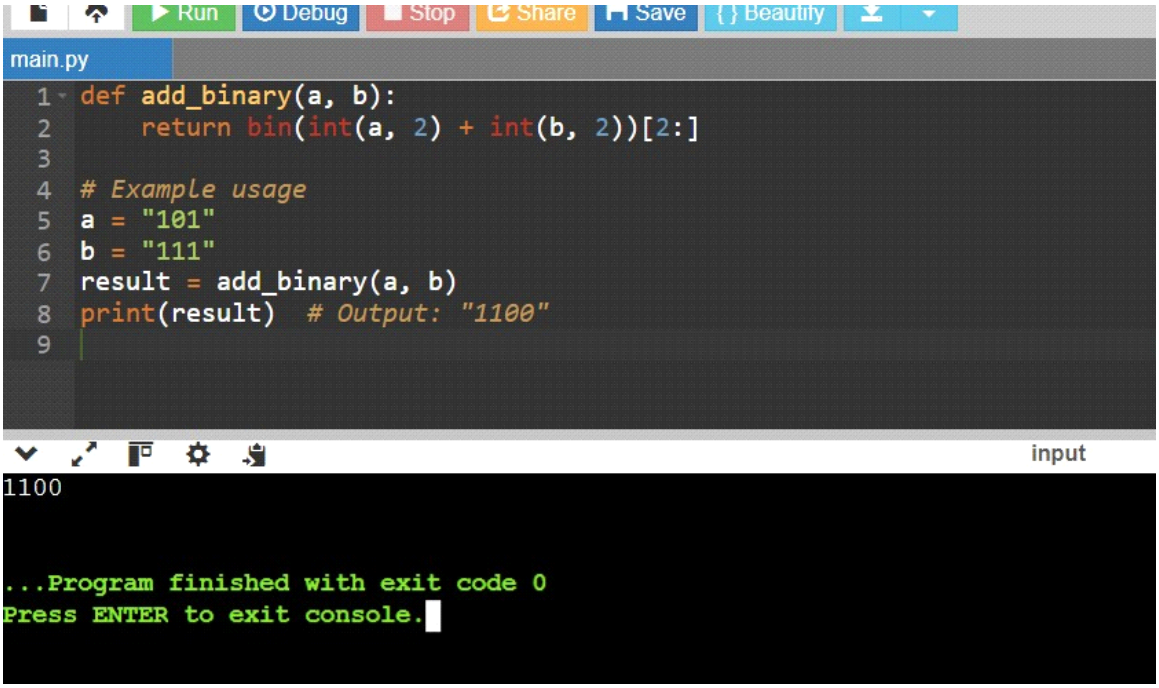
ASSISSMENT:4
MALREDDY(192372015)
1.



2.



3.

main.py

```python
def calculate(s):
    s = s.replace(' ', '')
    stack = []
    current_num = 0
    operation = '+'
    for i, char in enumerate(s):
        if char.isdigit():
            current_num = current_num * 10 + int(char)

        if char in '+-*/' or i == len(s) - 1:
            if operation == '+':
                stack.append(current_num)
            elif operation == '-':
                stack.append(-current_num)
            elif operation == '*':
                stack[-1] = stack[-1] * current_num
            elif operation == '/':
                stack[-1] = int(stack[-1] / current_num)
            operation = char
            current_num = 0
    return sum(stack)
test_cases = [
    "3+2*2",
    " 3/2 ",
    " 3+5 / 2 ",
    "10 + 2 * 6",
    "100 * 2 + 12",
    "100 * ( 2 + 12 )",
    "100 * ( 2 + 12 ) / 14"
]
for expression in test_cases:
    print(f'Expression: "{expression}"\nResult: {calculate(expression)}\n')
```

Output

```
Expression: "3+2*2"
Result: 7

Expression: " 3/2 "
Result: 1

Expression: " 3+5 / 2 "
Result: 5

Expression: "10 + 2 * 6"
Result: 22

Expression: "100 * 2 + 12"
Result: 212

Expression: "100 * ( 2 + 12 )"
Result: 212

Expression: "100 * ( 2 + 12 ) / 14"
Result: 200


=== Code Execution Successful ===
```

4.

Run | Debug | Stop | Share | Save | { } Beautify

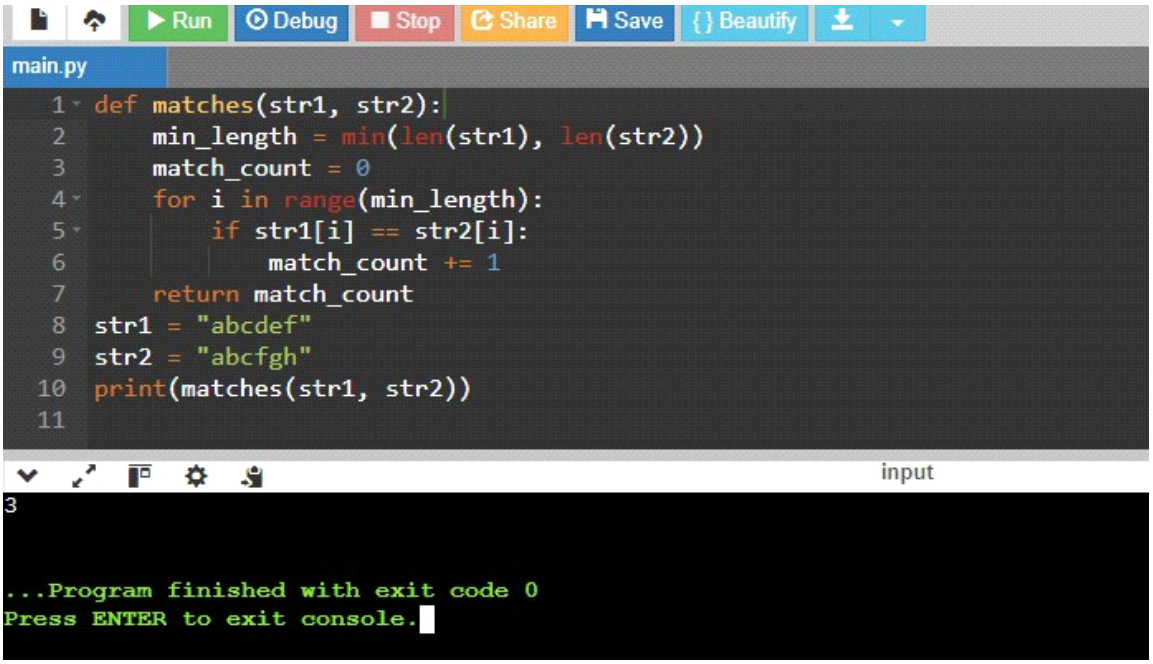
main.py

```python
number = 123
print("mirror numbe is:",str(number)[::-1])

```

input

```
mirror numbe is: 321


...Program finished with exit code 0
Press ENTER to exit console.
```

5.


Run
Debug
Stop
Share
Save
{ } Beautify
main.py
def matches(str1, str2):
min_length = min(len(str1), len(str2))
match_count = 0
for i in range(min_length):
if str1[i] == str2[i]:
match_count += 1
return match_count
str1 = "abcdef"
str2 = "abcfgh"
print(matches(str1, str2))
input
3
...Program finished with exit code 0
Press ENTER to exit console.