1. String & Pattern Problems

- 1. Reverse a given string without using built-in reverse functions.
- 2. Check if a string is a palindrome.
- 3. Count the number of vowels and consonants in a string.
- 4. Remove all spaces from a given string.
- 5. Count the frequency of each character in a string.
- 1.Reverse a given string without using built-in reverse functions.

2. Check if a string is a Palindrome.

```
s = input("give a string : ")
reverse = s[: : -1]

if reverse == s:
    print("it is a paindrome.")

else :
    print("it is not a palindrome.")

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\venkat\Python-programs> & 'c:\Users\venkat\AppData\Local\Programs\Python\Python313\
python.exe' 'c:\Users\venkat\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '64221' '--' 'C:\Users\venkat\Python-programs\palindrome_checker.py'
give a string : MOM
it is a paindrome.
```

3. Count the number of vowels and consonants in a string.

```
str = input("Given string: ")
vo_count = 0
co_count = 0
for i in str:

if i in ("AEIOUaeiou"):
    vo_count+=1
print("vowel count : %d"%vo_count)
for i in str:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\venkat\Python-programs> & 'c:\Users\venkat\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\venkat\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '64286' '--' 'C:\Users\venkat\Python-programs\practice.py'
Given string: Running
vowel count : 2
consonent count:5
```

4. Remove all spaces from a given string.

5. Count the frequency of each character in a string.