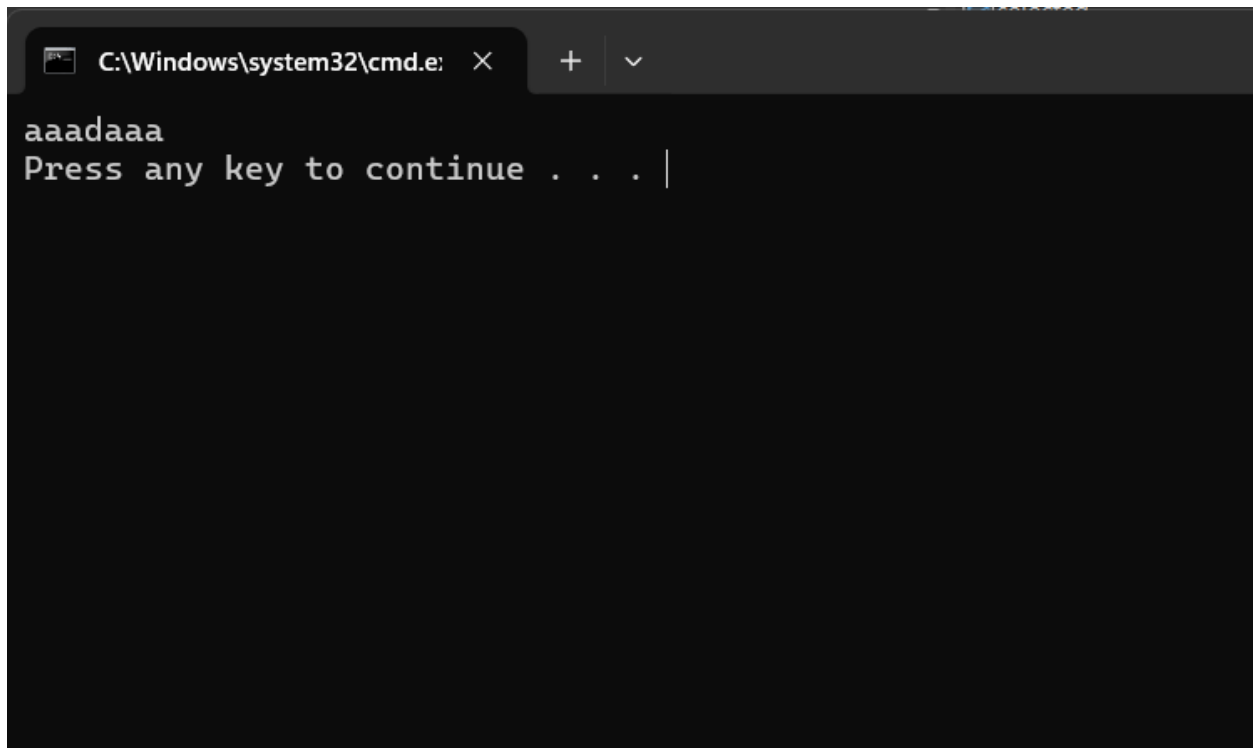


102) Longest palindromic subsequence

CODE:

```
def palin(s):
    maxpalin=""
    for i in range(len(s)):
        for j in range(i, len(s)):
            substr=s[i:j+1]
            if substr==substr[::-1] and len(substr)>len(maxpalin):
                maxpalin=substr
    return maxpalin
string="babaaadaaaa"
print(palin(string))
OUTPUT:
```

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.e' with a close button. The window content displays the output of the Python code: 'aaadaaaa' followed by the prompt 'Press any key to continue . . . |'.

TIME COMPLEXITY :  $O(n^3)$