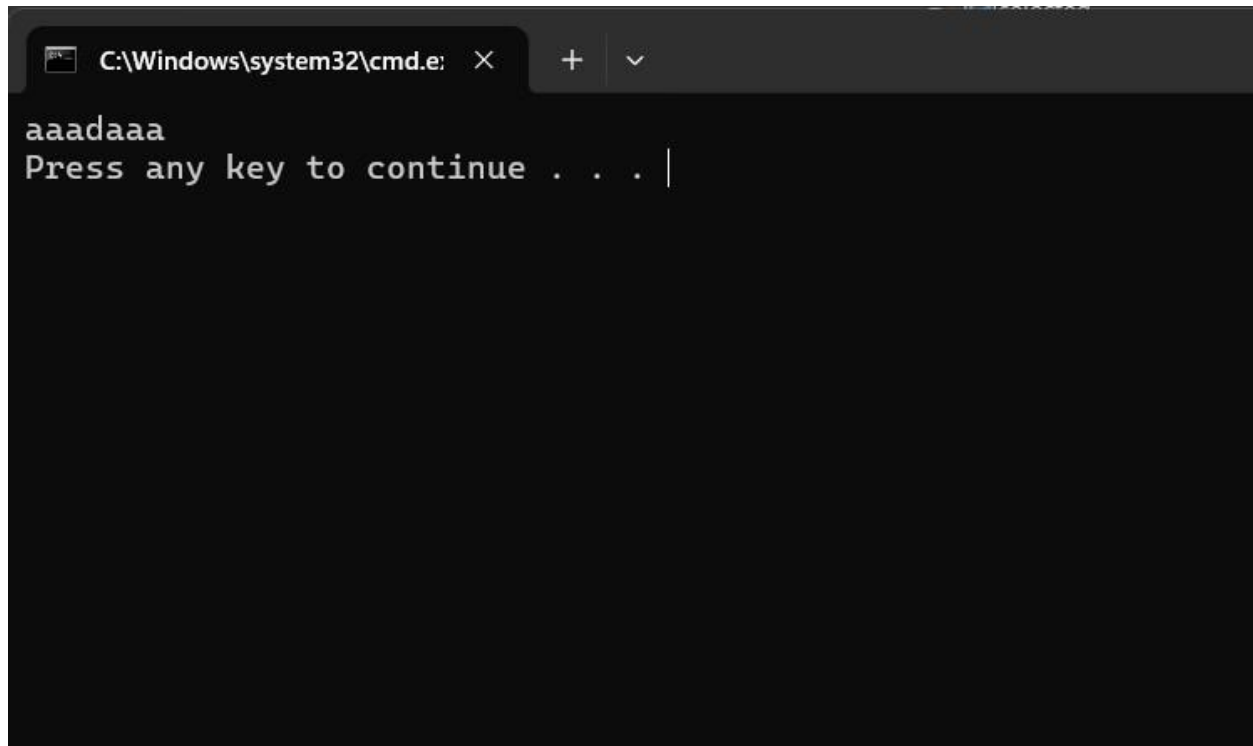


102) Longest palindromic subsequence

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 contains the output of the Python code: 'aaadaaaa' followed by the prompt 'Press any key to continue . . . |'.

TIME COMPLEXITY : $O(n^3)$