Date: Page no:

## Week-8

## Aim: Write a program to implement string compression?

## **Program:**

```
class Solution:
  def compress(self, chars: List[str]) -> int:
    if len(chars)==1:
      return 1
    prev_char = chars[0]
    cnt = 1
    ptr = 0
    n = len(chars)
    def modify():
      nonlocal prev_char, ptr, cnt
      chars[ptr] = prev_char
      ptr+=1
      if cnt>1:
         cnt = str(cnt)
         for j in range(len(cnt)):
           chars[ptr]=cnt[j]
           ptr+=1
      cnt = 1
      prev_char = curr_char
    for i in range(1,n):
      curr_char = chars[i]
      if curr_char==prev_char:
         cnt+=1
```

```
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     else:
       modify()
   modify()
   return ptr
Output:
Accepted Runtime: 62 ms
  Case 1

    Case 2
    Case 3

 Input
 ["a","a","b","b","c","c","c"]
 Output
  ["a","2","b","2","c","3"]
```

Page no: