

```
In [1]: def encode(message):  
    count=0  
    character=''  
    previous_char=message[0]  
    result=''  
    length=len(message)  
    i=0  
    while(i!=length):  
        character=message[i]  
        if previous_char==character:  
            count=count+1  
        else:  
            result=result+str(count)+previous_char  
            count=1  
            previous_char=character  
            i=i+1  
    return result+str(count)+str(previous_char)
```

```
In [2]: encoded_message=encode("ABBBBCCCCCCCAB")  
print(encoded_message)
```

1A4B7C1A1B