```
1
2  # HSLU / ICS/AIML : Modul ADS : Algorithmen & Datenstrukturen
3  # Path   : uebung01/ml/aufgabe03
4  # Version: Sun Sep 10 18:14:56 CEST 2023
5
6  def recursive_sum(n):
7    if n == 0:
8      return 0
9    else:
10     return n + recursive_sum(n - 1)
11
12
13 if __name__ == '__main__':
14
15   n = 100
16   print("Sum of 0..100 recursively                    = ", recursive_sum(n))
17   print("Sum of 0..100 explicitly : n * (n + 1) / 2)  = ", (n * (n + 1) // 2))
18
19
20   """ Session-Log:
21
22   Sum of 0..100 recursively                    = 5050
23   Sum of 0..100 explicitly : n * (n + 1) / 2)  = 5050
24
25   """
```