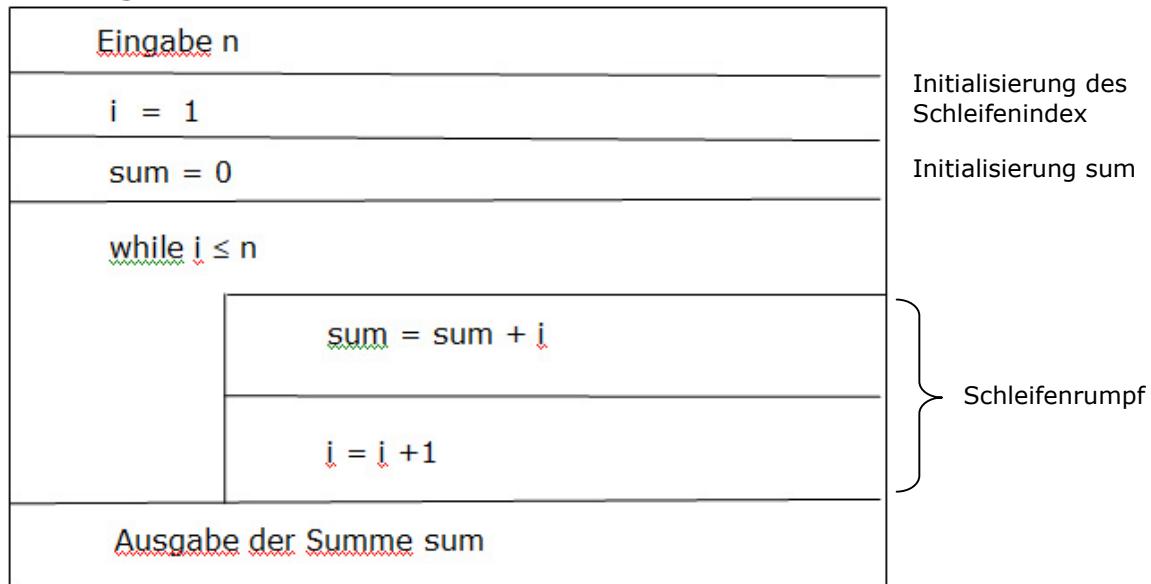


Lösung zu Aufgabe 5 Blatt 2 vom 12.11.2020

Summe der ersten n natürlichen Zahlen

Struktogramm:



Python-Quelltext:

```
Summe_while-loop.py - F:\Informatik_2020\GK... - □ X
File Edit Format Run Options Window Help
# Summe 1 + . . . + n
# while-Schleife

n = int(input('n = '))

i = 1      # Initialisierung des Schleifenindex i
sum = 0    # Initialisierung der Summe

while i<= n:
    sum = sum + i
    i = i+1

print ('1 + . . . +',n,' = ',sum)
```

```
File Edit Shell Debug Options Window Help
Python 3.8.6 (tags/v3.8.6:db45529, Sep 23 2020, 15:52:53) [MSC v.1927 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: F:\Informatik_2020\GK_inf_2020-21\MSS11\Summe_while-loop.py =====
n = 100
1 + . . . + 100  =  5050
>>>
===== RESTART: F:\Informatik_2020\GK_inf_2020-21\MSS11\Summe_while-loop.py =====
n = 999999
1 + . . . + 999999  =  499999500000
>>> |
```