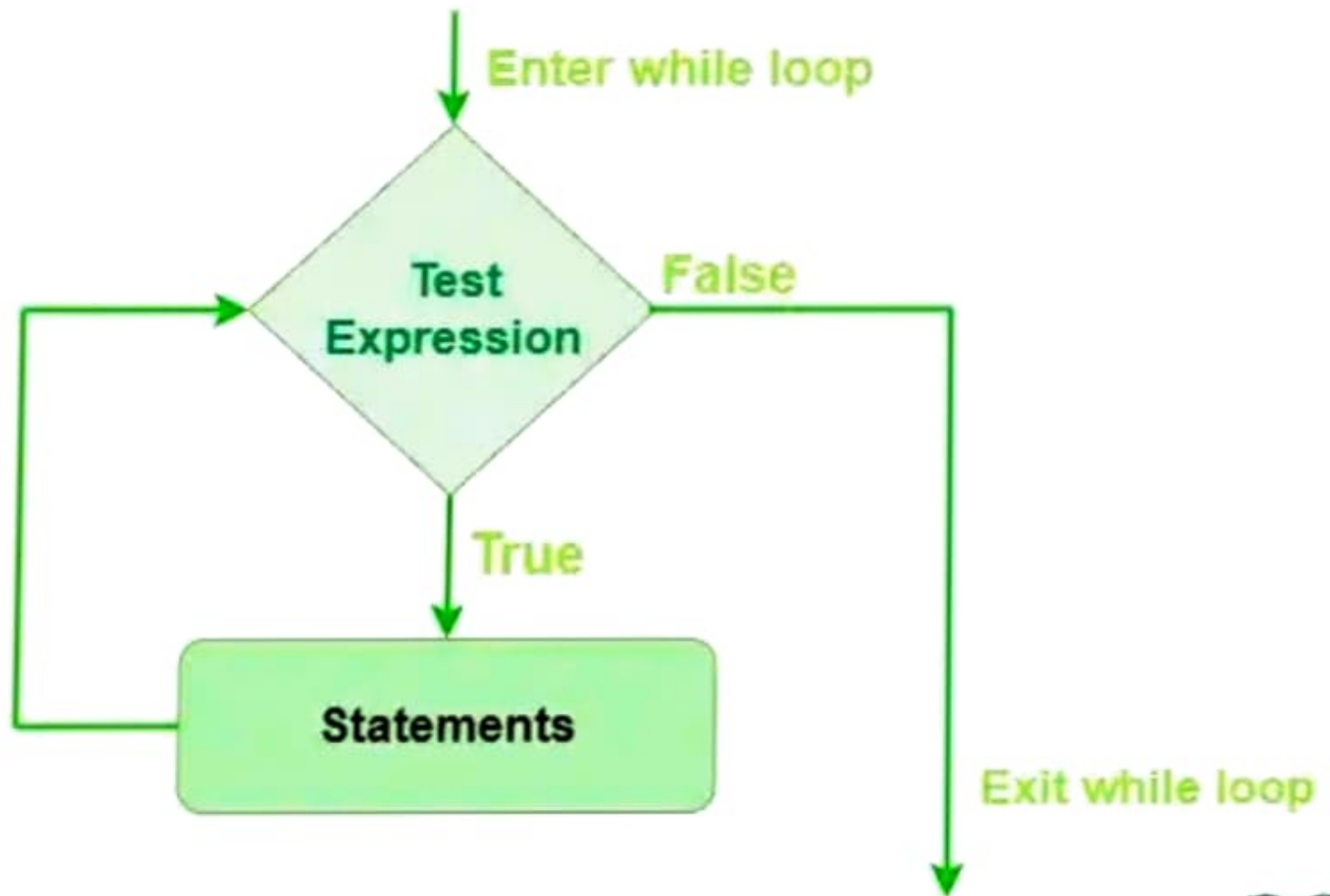


While Loop

While loop iterates through a block of statements repetitively until the given condition returns False. This means, while loop first checks the given condition and if the condition is true, then it executes the block of statements inside the while loop. Whenever the condition returns false, it breaks out of the loop and executes the next immediate line of code. We use a while loop when we don't know the number of times to iterate through the block of statements.

Working of While Loop :



```
# initialize sum and counter
sum = 0
i = 1

while i <= n:
    sum = sum + i
    i = i+1      # update counter

# print the sum
print("The sum is", sum)
```