Practice Sheet: while loop

Predict the output carefully before running the code. Focus on while loop termination conditions, iterations, and nested loops for better understanding!

```
1.
  n = 5
  while n > 0:
    n -= 1
     print(n * 2)
2.
  n = 1
  total = 0
  while total < 15:
     total += n
      n += 2
  print(total)
3.
  num = 1234
  reverse = 0
  while num > 0:
      reverse = reverse * 10 + num % 10
      num //= 10
  print(reverse)
4.
  result = 1
  n = 1
  while result < 100:
     result *= n
      n += 1
  print(result)
```

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5.
  text = "python"
  index = len(text) - 1
  while index >= 0:
      print(text[index])
      index -= 2
6.
  n = 10
  while n > 0:
      if n % 2 == 0:
          print(n, end=" ")
      n -= 1
7.
  n = 1
  total = 0
  while n \le 5:
      total += n ** 2
      n += 1
  print(total)
8.
  text = "loop"
  index = 0
  ascii sum = 0
  while index < len(text):</pre>
       ascii sum += ord(text[index])
       index += 1
  print(ascii sum % 10)
```

```
9.
  n = 5
  factorial = 1
  while n > 1:
      factorial *= n
      n -= 1
  print(factorial)
10.
  n = 29
  i = 2
  is_prime = True
  while i * i <= n:
      if n % i == 0:
          is_prime = False
          break
      i += 1
  print(is_prime)
11.
  a, b = 0, 1
  count = 0
  while count < 7:
      print(a, end=" ")
      a, b = b, a + b
      count += 1
12.
  n = 9875
  while n >= 10:
      temp = 0
      while n > 0:
          temp += n % 10
          n //= 10
      n = temp
  print(n)
```