Nested Loops

1. Nested loops

Just like if statements, loop can be nested within another loop.

1.

```
In [5]: a=3
        b=2
        while a>0:
            b=a
            while b>0:
                print('value of a is' , a , 'and b is', b)
                b-=1
            a-=1
```

```
value of a is 3 and b is 3
value of a is 3 and b is 2
value of a is 3 and b is 1
value of a is 2 and b is 2
value of a is 2 and b is 1
value of a is 1 and b is 1
```

2.

```
In [6]: a=3
        b=2
        while a>0:
            while b>0:
                print('value of a is' , a , 'and b is', b)
                b-=1
            a-=1
```

```
value of a is 3 and b is 2
value of a is 3 and b is 1
```

3.

```
: a=3
  b=2
  for a in  range(5,1,-2):
      b=a
      while b>0:
          print('value of a is' , a , 'and b is', b)
          b-=1
```

```
value of a is 5 and b is 5
value of a is 5 and b is 4
value of a is 5 and b is 3
value of a is 5 and b is 2
value of a is 5 and b is 1
value of a is 3 and b is 3
value of a is 3 and b is 2
value of a is 3 and b is 1
```