

Custom range generator

November 3, 2024

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[34]: """Custom Range Generator
Concepts: Iterators, generators
Task: Write a generator function that mimics Python's range() with start, stop, and step parameters.
Goal: Learn to create generators that yield values and manage custom iteration patterns."""
```

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[34]: 'Custom Range Generator\nConcepts: Iterators, generators\nTask: Write a generator function that mimics Python's range() with start, stop, and step parameters.\nGoal: Learn to create generators that yield values and manage custom iteration patterns.'
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```
[27]: def range_converter(start, stop, step=0):
    x = start
    if step == 0:
        raise ValueError("Step can not be zero")

    elif step > 0:
        x = start
        while x < stop:
            yield x
            x += step

    else:
        x = start
        while x > stop:
            yield x
            x += step
```

```
[31]: print("Range with positive numbers")
for i in range_converter(5,50,5):
    print(i)
```

Range with positive numbers

5

10
15
20
25
30
35
40
45

```
[32]: print("Range with negative numbers")  
      for i in range_converter(-5,50,2):  
          print(i)
```

Range with negative numbers

-5
-3
-1
1
3
5
7
9
11
13
15
17
19
21
23
25
27
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