



```
10)
11) Output
12) 0
13) 1
14) 1
15) 2
16) 3
17) 5
18) 8
19) 13
20) 21
21) 34
22) 55
23) 89
```

Advantages of Generator Functions:

1. when compared with class level iterators, generators are very easy to use
2. Improves memory utilization and performance.
3. Generators are best suitable for reading data from large number of large files
4. Generators work great for web scraping and crawling.

Generators vs Normal Collections wrt performance:

```
1) import random
2) import time
3)
4) names = ['Sunny','Bunny','Chinny','Vinny']
5) subjects = ['Python','Java','Blockchain']
6)
7) def people_list(num_people):
8)     results = []
9)     for i in range(num_people):
10)         person = {
11)             'id':i,
12)             'name': random.choice(names),
13)             'subject':random.choice(subjects)
14)         }
15)         results.append(person)
16)     return results
17)
18) def people_generator(num_people):
19)     for i in range(num_people):
20)         person = {
21)             'id':i,
22)             'name': random.choice(names),
23)             'major':random.choice(subjects)
```