Iterator and Generator

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Iterator = we can traverse a list
We can get the next element of the list till the end of list

Sequences Generated Programmatically ---
Then we can provide iterator for that also ---- these are called as GENERATOR
Write a program for prime numbers between 1 and 100

HW

1. Write a generator that operates on a dictionary and yields the QUOTE OF THE DA Y
   {
   0 : "Where there is a will there is a way ",
   1: _
   2:
   ..
   7
   }

   Get the next quote of the day and print it
   Menu
   1. Show all quotes
   2. Add a new quote
   3. Get the next quote
   4. Quit

2. Write a generator to print the cubes of numbers from 1 to n (accept n from user)

3. Write a generator that gives a random number
   Import random
   random.randint(start,end)

   Ask the user if user wants to see a pattern
   if user says =
   using the generator get the next number and pass it to the pattern function

4. Write a generator that gives the Fibonacci number
   1,1,2,3,5,8,13,……
   Either you give a restricted n
   Ask the user do you the next fibo number , Y (loop should run until user says no)
   yield the next number
   OR if exception occurs , just reinitialize the generator
   a = genfunc()
   OR
   Just put a while True