Task Implement python generator and decorbitors

Aim: write a python programto Implement python generator and de Corators

to prioduce a sequence of numbers. The generatorshould bealt eto:

a) Produce a sequence of numbers whomp movided with stary

6) produce a default sequence of number starting fromo, ending cot 10, and with a step 1 if no tolalus are provided.

Produce a sequence of number whomp rovided with Start, end, and step values.

Algorithm:

1) Define Generator Functions:

\* Define the function number\_s equence (start, end steps).

2) Initialize current value:

\* set current to the value of start

3) Generate sequente:

\* while current is less than (or) equal to end

\* Increment current by step.

4) Get User Input:

\* Read the Starting number (start) from us or input

\* Read the ending number (end) from us eripput

pead the Step value (tep) from werinput.

5) Execute or errotor Object: \*\* (reate a generator object by calling humber\_ sequence( start, end, step) with rich

sequence start, end, step)with user\_provided

values

b) print Grenerated sequence:

# Iterate over the value produced by the generator.

output Enter the starting number: identify a state of the Enter the ending number: 50 ( ( ) ( ) to see enter the step Nalue: 5 102 N MILLON MOSS SIN CUIPMED & MINE SI 160 porty who have how low wife out this waster in work to h Englished for more on times from thems 16 Motor open which 26 MEL MARIN 31 William in the Continue of the 46 March 1 man 1 poor 1 Econom 3 part 2 man 3 for more 1 f A STATE OF THE PROPERTY OF THE PARTY OF THE 

Parogoram:

def number\_sequence (Startiendistep: 1);

current = start

while corrent 2= end:

yield current

current + = step

Start = int (input d'Enter the starting number:"))
end = int (input d'Enter the ending number:"))
step = int (input d'Enter the step value:"))

It create the generator

sequence -quinter = number\_sequence (start, end, step)

If paint the general ed sequence of no for

print (number)

perogeram:

def number\_sequence (start.end step=1);

current = start

while correntz= end:

yield current

current + = step

Start = int (input ('Enter the starting number:"))
end = int (input ('Enter the ending number:"))
step = int (input ('Enter the ending number:"))

It create the generator

sequence -generator=number\_sequence (start, end, step)

It paint the generated sequence of no for

print (number)

EX NO.	7
PERFORMANCE (5)	-
RESULT AND ANALYSIS (5)	4-
VIVA VOCE (5)	5
RECORD (5)	8
TOTAL (20)	
IN WITH DATE	120

Thus the Implement python generator de ordbors-

2. livult.