Look &: fullement Entres developed any dece rators tim: write a python program to Implement Python generator and decoratous write a python program that includes a generator function to produce a sequence of numbers. a. Produce a sequence of numbers when Provided with start , and step valors b. Produce a défautt sequence of compers starting from o, ending at 10, and with a step of 1 14 horalus. are provided Droduce a sequence of numbers when with start i end wound step Provided values. Algositem! to Define Generator Function: · Define the function proximber. Sequence (Start cendistopol) 2 · (ritialize Current Value) · set current to the value the days 3. Coeferate Sequence . cofile correct sless thanor equal to end: . Steld the current nathor .) (recent correct by step.

St- create Generator object! · Create agenarator object by alling number - sequence with userexouided values s. Print Gen evaled sequence · Iterate over the values provide by the generalor object . prict each value 8-7 BLOGROW def number - sequence (start , end , step = 1) Carret = Statt while current a = end yield current current +=step start = int comput creater the Starton number: ") end = int Comput (menter the ending rum ber, ")) Step = and Comput Conferter the Step value: ") A Greate the generator Sequence - generator = nomber & - sequence # point the generator sequence of numbas for number in sequence - genarator print (number)

enter the exactor nomber: So

Enter the etep value: S

1
6.
11

26

31

46.

2

produce a default sequence of numbers starting from overding at 10 eard with a step of 1 lf 100 values are provided Algo oithmi 1 · Start Eurotion! of Define the function my-generator(n) that takes a parametern 2. (untialise Counter; " set value to o. 3. Osenerate Values .) were value is less than n! . Yield the constant value os lecte ment value by? 4. Coreate Generator Object · call my - genasator (11) to creak a genarator object. 5. Iterate and print values · FOE each value produced by the generator object. · Point value.

```
# Pritialize court
```

Pritialize courter

loop until counter is less thanh
white value ch

A produce the current value of the counter

xteld value

recomment the counter

Pterate over the generator object Produced by my - generator for value in my - generator (3):

Hererator

Point (value)

out put!

0

1

2

Imagine you are working on a messaging application that weeds to found message differently based on the user's preferepres. Users can choose to take their meseages outo matically converted to uppercase to uppercase - de conster and lower case - decostor. Walte a programto implement it. Algorithm! 1 - create Decorators: · Define uppermese - deco + tox to conven tee sees it of a function to upper . Define lower case - decor atos to comvert the result of a function to lower case. 2 · Define Functions: · Define Stout function to returntly input text - Apply @ upper casedecorator tothers function · Define meriches forction foretain the orput text. Apply @ lowring. decorator to this function. 3- Define greet · Function o Define great function that; . Accepts a functions as imput. · calle this function with the trit atti. lam excated by a function passed as an organient." · prints the ocsalt. 4 . Execute the program · call greet to paint the greeting in upper cost · call are of to beint the decetual in lower case.

Brogram's des upper case - de corator Cfurci! def waappea Ctext): seturo functerts. upperco return wrapper def lower case - decorator (forc): det weapper Ctexts: return for often I-lowers sefare madebee @ abbercare - qecorator def Shout Ctexts: return text lower case - decorator det whisper Ct-xt) octure text def greet Cfund greeting= force Cette, lam created by a function possed as on argument.") print (greeting) great (shout) great (weisaper) VELTECH PET FORMANCE (3) RES II : AND ANALYSIS (5) SICN WITH DATE Implemen Resoltin Thus the Pothon programs pythor generator and decorators successfully executed and the out put

Ont Bry!-

HI. LAM CREATED BY A FUNCTION PASSED AS AN PROUMEN

herian executed by a function possession