Task:-8 Task 8: Proplement Bythan generator and decoration Am: write a python program to raplement Python genasator and decorators.

a) produce a sequence of numbers when provided with start , and , and step values. Algorithm:

1. Define Generator functions.

- · Detine the forction number-sequence (stast, end 1 Step=1).
- 2. Pritialize Corrent value:
 - . Set current to the value of start.
- 3. Grenerate Sequence.
 - · while corrent is less than or easy to end;
 - · Pisig the corrent native or corrent.
 - · Provenent corrent by Step.
- 4. Get uses input.
 - . Read the starting number (start) from ver.
 - . Read the ending number (end) from its input
 - · Read the step value (step) from uses input.
- 5. execute Grenerator objects:
 - · Greate a generator abject by calling number- sequence (start, end, step) with Wer - Provided values.
- 6. Print Generated Sequences.
 - · Pterate over the values produced by the generator object.
 - · Print each value.

Viler : stoc output the of my to tombini Entex the Starting number: ELHER the ending number: 50. Enten the Step value: 5. 190 vont 10 to some of the some of the sold (10 Words kin, has trote atten totavora · VY STREETS + 26 porteres of tonothing tout 18 100 cos rodmon fortand out sixted! UI (1=09421 bre)

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Dogram: det num - sequence (start , and step=1); cussent = start. cohile corrent <= end; Misig correct. corrent += Step. start = int (input ("tentor the starting number:)) and = int (input ("tuter the ending number:")) Step = int (in put ("Inter these be value")). It create the generator. sequence - generator = number _ sequence (start, end sto) # Print the generated sequence of numbers to compar in sequence generator; DRY (unupa) b) Produce a default sequence of numbery Starting from o, ending at 10, and with a step of 1 ifno. values are provided. U paythw: 1. Start function: . Define the function my-generator(n) that. takes a parametern. 2. in talize counter: . Set value to o. 3. Grerate values: · while value is less than n: · yield the corrent value: · in cornert value by 1.

- 4. (seate Grenerator object.
 - · call my-generator (11) to create a generator o bject.

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5. Ptesate and point values. , for each value Produced by the generator. object: · print value. def my - generator(n): # initialize counter. value = 0. # 100 Puntil Counter is less than n. while value an : # Produce the correct value of the. coon ter. yield value. # increment the counter. value +=1 # Please wer the generator object produced. by my-generator. # Point each value produced by generator Port (value)

812 imagine you are cooking . There decordary readify the behaviour of the forchartheydecorate. by converting the text to opportuse or lowerous. respectively, while a program to implementit.

Hibrathin:

- 1. create Decorators:
- . Define uppercase decorator to convert the result ot a function to appearage
- , define case decorator to convert the. result of a function to lowercase.
- 2. Define functions.
- . Define shoot fonction to retorn the input text APPL @ losse decorator to this function.
- · Define whisper function to return the input text. APPly @ lawercase _decorator to this function.
- 3. Define Greet function:
 - . Define greet forction that:
 - . Accepts a foretron (func) as input.
 - · calls this fonction, with the text "Hi, Iam cocated by a function passed again argument
 - points the result.
- 4. execute the program
 - . can grout (short) to prot the greating in
 - · can greet (white) to point the greeting in werker

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det appencase decorator (func). deff wappen (text): return func (text). sppor(). RETURN Mappel.

· produce - mo hav superni. HI ITAM CREATED BY A FUNCTION AS AN ARGIOMENT O STULL his, iam created by a function passed as an 1. coseate Decementos. ordonen+. torosob - secono 770 orthon -200370 d 18/2702 - 5 +0 rotorosob- 92 portoso 1 877 : 1. 0. 90001 of N3Hard 040 +10208 · profite fortions. Homai sold marter of nothand toute enters. Charter of the protection of the protection the place white of the forest to set to set the spect. town the of 140800= P - 000 Mood (B) That · North mod Lesson of the town to be without . tratical and) roughest a statement. THE LAST SAL AMOUNT OF THE TENT SIMES to note to some party of bythouse -40101 suit story

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def bucescase - decorator (func); tuttu) detucapper (text). return fonc(text).lower() retorn wrapper. a uppercase -decotator. def Shoot (text): return text. @ lowescase - decorator det whapen (text). return text. det greet (func): greeting = for ("Hi", Fam cracked by a function passed as an argument."). Point (greeting). greet (short)
greet (whiten)

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Result! - This the python program to implement python generator and decorators kear soprenfully. executed and the output was verified

