task: 8 Implement python generator and decodetors lim: write a pythor program to implement python generator and decorators. I man probans soft estima 8.1 Write a python program that includes a generator function to produce a sequence of numbers a) Produce a sequence of runters where provided with start, end and step values. Algorithm: 1. Define generator function · SE Define the function number - sequence. 2. initialize current value: . set awarent to the value of start

3. Generate sequence:

. while current is less than or equal to end:

A. get user input oread the starting number

. read the ending number . read the step value

5. (reate generator object:

ocreate a generator object by calling

number - sequence Print Generated object

6. Print Generated object of iterate over the values

· Print each value.

output: Enter the starting number 19 19 miller Enter the ending number: 50 Enter the step value: 5 6 11 % 16 21 26 31 36 me thorong subscenary is x-1 41 who me tank of ord. In. 46 The substitute of the off of the off early street rosid sast is recording and And the second

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Program def number - sequence (start, end, step = 1): tigto current = start while current L= end: yield aucount Start = int (input ("Enter the starting number:")) end = int (input ("Enter the ending number:")) 8top = int (input ("Enter the step value ")) sequence - generator = number - sequence (start, end, step) for rumber in sequence - generator: print (number) 8-2) b MIgorithma 1. Start Junetion: · Define the function my-generator 2. irritialize couriter: set value to o 3. Generate values · while value is less than no: · yield the current value . increment value of 4. create generator object: o call my-generator (11) to create a generator object 5. iterate and print values: . Print value.

Program def my - generator (n): PI, T AM CREATER BY A FONCTION B value = 0 while value (?: yield value livered minutes and bottom in value += 1 for value in my-generator (3): 8.2 Imagine you are working on a messaging application Print (value) that needs to formal may differently based on the users preference user can choose to have their messages auto-matically converted to upper case to a lower case. You are provided with two decorators uppercose_decorator and lowercase_decorator. Algorithm: · Define uppercase - decorator to convert the result of 1. Create Decorators. · Define lowercase-decorator to convert the result of a function 2. Defin Greet function: . Accepts a function as input . prints the result. 3. Excepte the programs · call greet (shout) to print greeting in upper cose . call greet (whispter) to print in lower case.

morp of · (1 = 9518, fine tenta) isomorps - tidomion tol tests = torre output bono is towered alid. The footmula priberta sett notas (tugari) Tai strets ((" not form grades out sollies") tough, ton bury Me enter gette edit setme I togail toil - 1912 (gote bone trate) somewhere - detoreer - voto-eerige - wrimper for rumber in sequence - generator tor. print (num des) : stoot sunction: Puffere the function my-generator evention is bution is ع الم و الافراد الافراد المعلادية or with real or when 9 will or was travers with by V. of management of some of the second s

output

HI, I AM CREATED BY A FUNCTION PASSED AS AN ARGUMENT

hi, I am created by a function Passed as any argument

Program def uppercase - decorator (func): def wrapper (text): retwere gune (text). upper () return propper [20 1 20 10 20 10 20 10 20 20 20 def lavercase decorator (func): a direction of the return func (text): lower() def wropper (text): return wrapper. @ uppercase - decorator def shout (text): retwork text * @ lower cose - decorator def whisper (text): return teat greating = fune ("Hi, I am created by a function passed tel greet (func): as an argument.") print (greeting) greet (shout) greet (whisper) Result: Thus, the python program to implement python generator and decorators was successfully executed and the output was verified. PERFORMANCE (5) RESULT AND ANALYSIS (5) IVA VOCE (5) MECORD (5) OTAL (20) A WITH DATE