

ActivitiesTerminal

Fri 17:53

dan@dan-Alienware-m15: ~/Documents/School/CIS110/Excercises/Ch5

Ch5ex11.py

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dan@dan-Alienware-m15:~/Documents/School/CIS110/Excercises/Ch5\$ python3 Ch5ex11.py

This program illustrates a chaotic function

Enter the first seed between 0 and 1: .25

Enter the second seed between 0 and 1: .26

index	0.25	0.26
1	0.750360	0.750360
2	0.730547	0.730547
3	0.767707	0.767707
4	0.695499	0.695499
5	0.825942	0.825942
6	0.560671	0.560671
7	0.960644	0.960644
8	0.147447	0.147447
9	0.490255	0.490255
10	0.974630	0.974630

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Open

def main():

print("This program illustrates a chaotic function")

x1=float(input("Enter the first seed between 0 and 1: "))

x2=float(input("Enter the second seed between 0 and 1: "))

print()

print("index ",x1," ",x2)

print("-----")

for i in range(1,11):

x1=3.9*x1*(1-x1)

x2=3.9*x2*(1-x2)

print("{0:2}{1:15.6f}{2:10.6f}".format(i,x2,x2))

main()