Point Park University

Assignment ON:

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Course Code: ET204

Course Title: Programming for Engineering Technology

Submitted To:

Instructors Name: Dr. Greg Johnson

Department: Natural Science And Engineering Technology

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Batch: 2023

Major: Electrical Engineering, NSET Department

Date of Submission: 4/26/2020

Logistic Map

Python Code:

```
r = float(input(‘enter r value between 0 and 4 ’))
n1 = float(input(‘enter seed value between 0 and 1’))
n2 = n1*r*(1-n1)
n =0
for i in range (20000):
        n3 = n2*r*(1-n2)
        x = abs(n3-n2)
        n2=n3
        n = n+1
        print(i,n3,x)
        if x < 0.0000001:
                print(“found the fixed point in”, n, “steps!”)
                break
        else:
                continue
```

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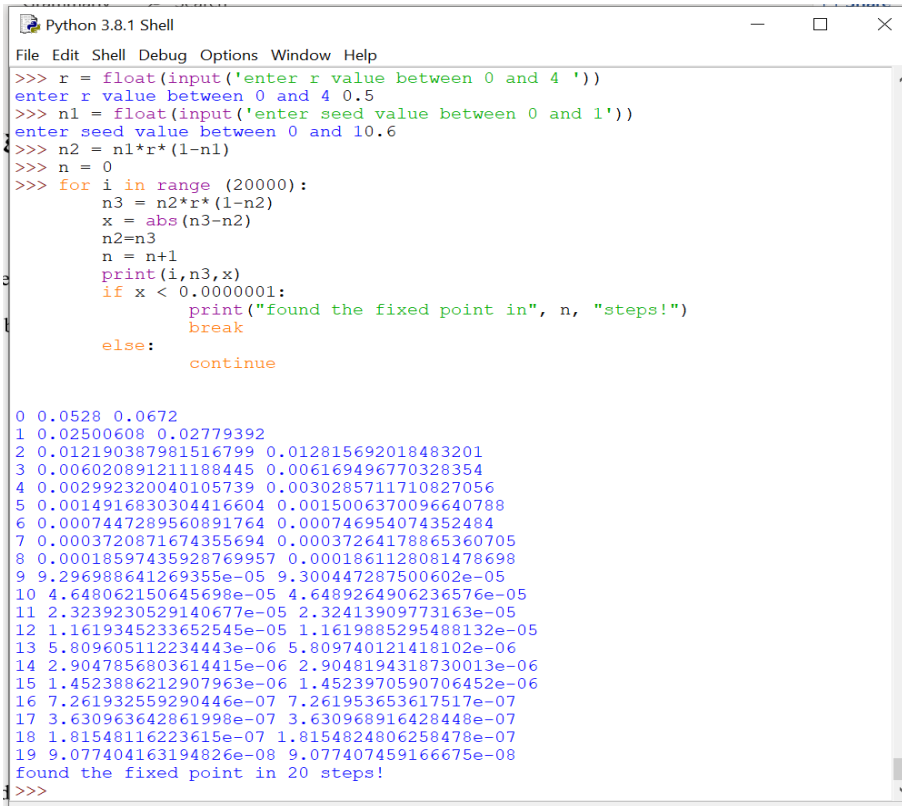
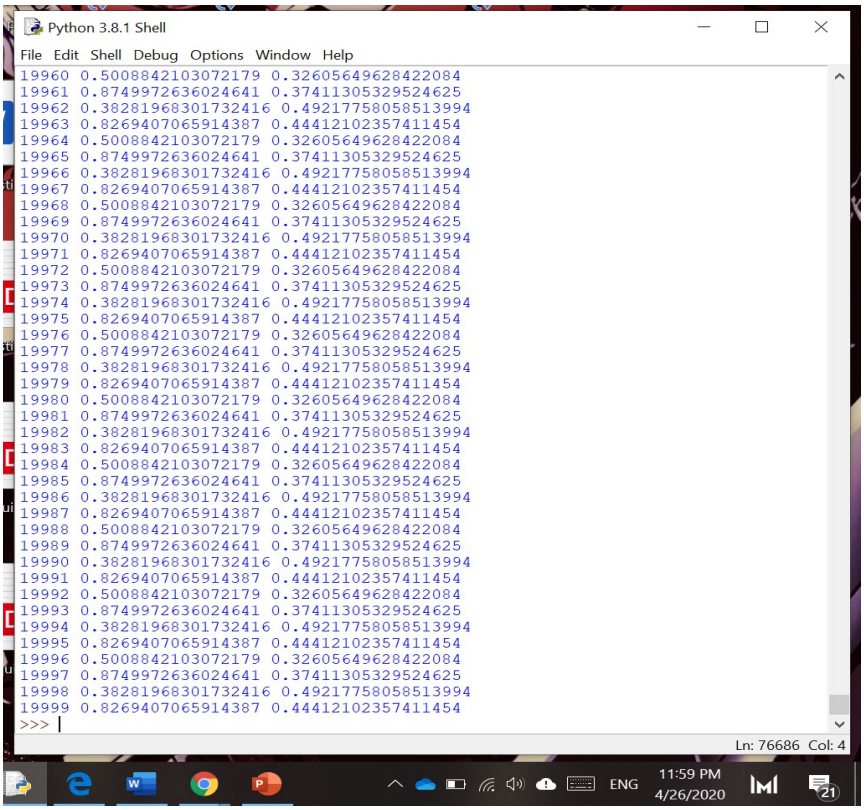
Output:

When R = 0.5



When R = 3.5



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