```
#Homework-8
 #Okay to post
#Ans-2

#The code was not running for me initially so I modified the Ord function and added eval in one of the
    lines, and it gave me the decimal output after that


    #Orb(f,x,x0,K1,K2): Inputs an expression f in x (desccribing) a function of x, an initial point, x0, and
    a positive integer K, outputs
#the values of x[n] from n=K1 to n=K2. Try: where x[n]=f(x[n-1]), . Try:
#Orb(2*x*(1-x),x,0.4,1000,2000);
Orb := proc(f, x, x0, K1, K2) local x1, i, L :
x1 := x0 :
for i from 1 to K1 do
 x1 := eval(subs(x = x1, f) ) :
    #we don't record the first values of K1, since we are interested in the long-time behavior of the orbit
od:

L := [x1] :

for i from K1 to K2 do
 x1 := eval(subs(x = x1, f) ) :   #we compute the next member of the orbit
 L := [op(L), x1] : #we append it to the list
od:

L : #that's the output

end:
```

$Orb(2 \cdot x \cdot (1 - x), x, 0.9, 1, 5)$

$$[0.18, 0.2952, 0.41611392, 0.4859262512, 0.4996038592, 0.4999996862] \quad \textbf{(1)}$$

$Orb(x \cdot (1 - x), x, 0.5, 1, 1000)$

$$[0.25, 0.1875, 0.15234375, 0.1291351318, 0.1124592495, 0.09981216670, 0.08984969808, \quad \textbf{(2)}$$
$$0.08177672983, 0.07508929629, 0.06945089387, 0.06462746721, 0.06045075769,$$
$$0.05679646358, 0.05357062530, 0.05070081340, 0.04813024092, 0.04581372083,$$
$$0.04371482382, 0.04180383800, 0.04005627713, 0.03845177179, 0.03697323304,$$
$$0.03560621308, 0.03433841067, 0.03315928422, 0.03205974609, 0.03103191877,$$
$$0.03006893879, 0.02916479771, 0.02831421228, 0.02751251766, 0.02675557903,$$
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$Orb(2.5 \cdot x \cdot (1 - x), x, 0.5, 1, 1000)$

[0.625, 0.5859375, 0.6065368652, 0.5966247410, 0.6016591485, 0.5991635438, **(4)**
0.6004164790, 0.5997913268, 0.6001042278, 0.5999478590, 0.6000260638, 0.5999869665,
0.6000065162, 0.5999967418, 0.6000016290, 0.5999991855, 0.6000004072, 0.5999997965,
0.6000001018, 0.5999999490, 0.6000000255, 0.5999999872, 0.6000000065, 0.5999999968,
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$Orb(3.1 \cdot x \cdot (1 - x), x, 0.5, 1, 1000)$

[0.775, 0.5405625, 0.7698995192, 0.5491781734, 0.7675026726, 0.5531711926, **(5)**
0.7662357553, 0.5552674201, 0.7655310881, 0.5564290480, 0.7651288638, 0.5570907254,
0.7648960122, 0.5574733184, 0.7647601349, 0.5576964201, 0.7646804816, 0.5578271524,
0.7646336632, 0.5579039753, 0.7646061018, 0.5579491938, 0.7645898618, 0.5579758355,
0.7645802878, 0.5579915410, 0.7645746417, 0.5580008029, 0.7645713114, 0.5580062657,
0.7645693466, 0.5580094885, 0.7645681875, 0.5580113900, 0.7645675037, 0.5580125116,

0.7645671004, 0.5580131731, 0.7645668623, 0.5580135637, 0.7645667218, 0.5580137941,
0.7645666391, 0.5580139298, 0.7645665901, 0.5580140101, 0.7645665613, 0.5580140573,
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$Orb(3.5 \cdot x \cdot (1-x), x, 0.5, 1, 1000)$

[0.875, 0.3828125, 0.8269348143, 0.5008976952, 0.8749971794, 0.3828199039, **(6)**
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Help9( )

Orb(f,x,x0,K1,K2), Orb2D(f,x,x0,K) , FP(f,x) , SFP(f,x) , Comp(f,x) **(1)**

$$x(n) := \frac{(7\cdot x(n-1) + x(n-2))}{x(n-1) + 2\cdot(n-2)}$$

$$x := n \mapsto \frac{7\cdot x(n-1) + x(n-2)}{x(n-1) + 2\cdot n - 4} \quad \textbf{(2)}$$

$x(0) := 0.5$:

$x(1) := 0.7$:

$[seq(x(i), i = 2..18)]$

[7.714285714, 5.630882355, 4.893680602, 3.661448139, 2.617498033, 1.742337056, 1.077972208, 0.6160074036, 0.3243874358, 0.1575342949, 0.07079871374, 0.02959228162, 0.01156676658, 0.004250403241, 0.001475475640, 0.0004859338578, 0.0001524043308] **(3)**

$x(18)$

0.0001524043308 **(4)**