logistic map


```cpp
#include<iostream>
#include<fstream>
using namespace std;
int main(){
    float r=4.0;
    float x1=0.1;
    float x2=0.8;
    float xplas,xplas2;
    ofstream out("logistic");
    for(int i=0;i<=80;i++){
        xplas=r*x1*(1-x1);
        xplas2=r*x2*(1-x2);

    out<<i<<'\t'<<x1<<'\t'<<x2<<'\t'<<xplas<<'\t'<<xplas2<<'\n';
        x1=xplas;
        x2=xplas2;}
    out.close();
    return 0;
}
```