**Problem 1:** read the xi and yi from excel document, design a program to calculate different order difference quotient, output them to DQresult.txt with format f9.5

* 文件读取PUT

x=xlsread(‘exam1.xlsx’);

xi=x(:,1);

yi=x(:,2);

文件写入

A=rand(10);

nr=size(A,1);

nc=size(A,2);

fid1=fopen('result.txt','wt');

fprintf(fid1,[repmat('%10.6f',1,nc),'\n'],A);

fid1=fopen('result1.txt','wt');

for i=1:nc

j=i;

fprintf(fid1,[repmat('%10.6f',1,j),'\n'],A(i,1:j));

end

**Problem 2.** Use Newton method to approximate on interval [-2,2] from  to ，change the interpolated function as , what will happen?