```
close all
clear all
clc
% Variables declaration
%----------------------
Data1= [];
vectLength = 10;
count=0;k=1;
%Saving to a file
%====================
    key=[];
    key2=[]; filename=input('Give a name of the file:','s');

    s=sprintf('%s.txt', filename);
    fid = fopen(s,'w');
    fprintf(fid, filename);
    fprintf(fid,'\n');

% Opening GPIB objects and multimeters setting
%---------------------------------------------
g1= voltSett('ni', 0, 20, 10);  % callin of a function for initialization and setting
fprintf(g1, 'DISPLAY:TEXT "TEPLOMER"');
pause(2)
fprintf(g1, 'DISPLAY:TEXT "MEASURE?"');

figure('WindowStyle','docked'); hold on

% Measurements
%--------------
while count<vectLength
   zapis=1;
    key='';
    key2= input('Measure?\n','s');
    if isequal (key2, key)
       count=count+1;
        disp(sprintf('processing'));
        if k==1

        fprintf(g1, 'DISPLAY:TEXT:CLE')
        k=0;
        end

        fprintf(g1,'INIT')
               pause (0.5)
        trigger (g1);
               pause (0.3)
        fprintf(g1,'FETCh?')
             data1=fscanf(g1);

        Data1(end+1)= str2double(data1);
        disp(sprintf('Done!'));

        vz=count;
        plot(vz, Data1(end),'.r')
        fprintf(fid,'%d;', vz);
        fprintf(fid,'%d;', Data1(end));
        fprintf(fid,'\n');
    else count=100000000
         fprintf(fid,'\n');
         disp(sprintf('Break!'));
```

```
    end

end
fprintf(g1,'*RST')
disp(sprintf('Finished!'));
%% closing all GPIB objects
fclose(instrfind)
%% destructor of all GPIB objects
delete(instrfind)
%% uzavreni souboru, kam se zapisovalo
fprintf(fid,'\n');
fclose(fid);
```