```
%fclose(instrfind);
s=serial ('COM6', 'BaudRate', 9600, 'Terminator', 'CR/LF'); %inicializar port
fopen(s);
fid=fopen('resultats_final.txt','w');
t=datetime('now'); pause(2);
i=0;
flushinput(s);

figure
h = animatedline;
ax = gca; %current axes

%Modify axes
ax.YGrid = 'on';
ax.YLim = [0 4];
xlabel ('Time');
ylabel ('Depth[m]');
title('REAL TIME DEPTH');

maxval=0;
minval=4;

variable=input('Ingrese el valor de la variable: ','s');
fwrite(s,variable);
if(variable=='S')
startTime = datetime('now');
end
while(variable=='S')

        lectura_bits=fscanf(s, '%c')
        bits=str2double(ectura_bits;
        depth=bits*0.0143540-8.92822;

        if(depth>maxval)
                maxval=depth;
        if(depth<minval)
                minval=depth;
        end
        end

        t=datetime('now') - startTime;
        datenum(t);
        depth;
        addpoints (h,datenum(t),depth);
```

```
        % Update axes
        ax.XLim = datenum([t-seconds(10) t]); datetick('x','keeplimits')
        drawnow

        pause (0.02);
        % Check stop condition
        i=i+1;

end

fprintf(fid,'\nVALOR MAXIM: $f m', maxval);
fprintf(fid,'\nVALOR MINIM: $f m', minval);
fprintf(s,'%s\n','e');
fclose(fid);
```