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Roll No:	2019-EE-360

Assignment#2

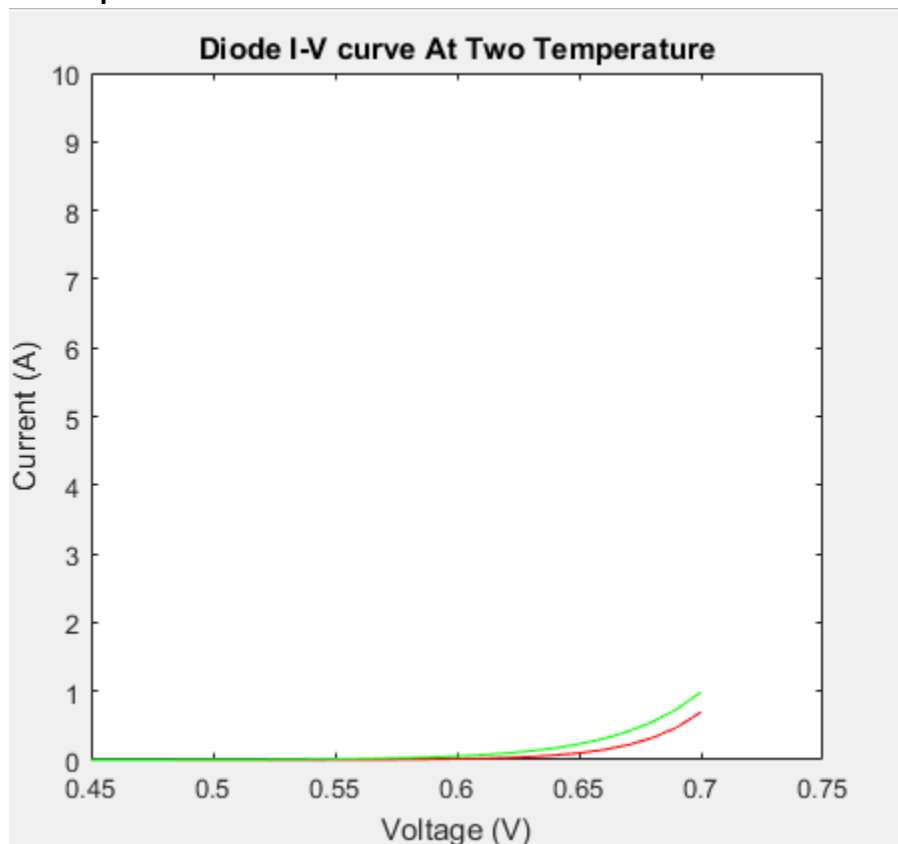
Code:

```

T1=25+273;
T2=125+273;
q=1.602e-19;
K=1.38e-23;
i1=1.0e-12;
k=0.072;
i2=i1*exp(k*(T2-T1));
v=0.45:0.01:0.7;
i_T1=i1*exp((q*v)/(K*T1));
i_T2=i2*exp((q*v)/(K*T2));
plot(v,i_T1,'r',v,i_T2,'g');
axis([0.45,0.75,0,10])
title('Diode I-V curve At Two Temperature')
xlabel('Voltage (V)')
ylabel('Current (A)')

```

Output:



In MATLAB:

