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% Christopher Brant ENGR 1410 2/9/16
% Assignment A7
clear
clc
```

Question One

```
Problem Statement: Importing information from Excel and referencing information fr
[DR1, TR1] = xlsread('Voltage Capacitance.xlsx', 'A:C');
[DR2, TR2] = xlsread('Voltage_Capacitance.xlsx', 'E:I');
%PartNum = menu('Choose a Part Number', TR1{2:13,1});
PartNum = 12;
fprintf('Part number %s has a voltage of %0.0f volts and a capacitance
 of %0.2f microfarads.\n\n', TR1{PartNum + 1, 1}, DR1(PartNum, 1),
 DR1(PartNum, 2));
Freq = DR2(2:11, 1);
FreqCell = num2cell(Freq);
%FreqChoice = menu('Choose a Frequency', FreqCell);
FreqChoice = 6;
Resist = DR2(1, 2:5);
ResistCell = num2cell(Resist);
%ResistChoice = menu('Choose a Resistance', ResistCell);
ResistChoice = 3;
fprintf('Input Frequency = %0.0f Hz\n\n', DR2(FreqChoice + 1, 1));
fprintf('Resistor = %0.0f Ohms\n', DR2(1, ResistChoice + 1));
fprintf('\tMaximum capacitor voltage = %0.2f V\n', DR2(FreqChoice + 1,
ResistChoice + 1));
Part number C-66825 has a voltage of 25 volts and a capacitance of
 0.68 microfarads.
Input Frequency = 600 Hz
Resistor = 3000 Ohms
Maximum capacitor voltage = 1.99 V
```

Question 2

```
Problem Statement: Learning to import information and then write a
calculated volume to another sheet in that Excel workbook.

[WidgetD, WidgetT] = xlsread('Widgets.xlsx', 'C:G');
```

```
Volume = pi * WidgetD(:,1) .* (WidgetD(:,2) .^ 2);

PartHeadings = WidgetT(1:21,1);
VolumeHeading = {'Volume [in^3]'};
xlswrite('Widgets.xlsx', PartHeadings, 'Cylinder Volumes', 'A1:A21');
xlswrite('Widgets.xlsx', VolumeHeading(1,1), 'Cylinder
    Volumes', 'B1');
xlswrite('Widgets.xlsx', Volume, 'Cylinder Volumes', 'B2:B21');
```

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