# Chapter 3-HW Problems 6,8

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# Problem 6

```
epsilon = 8.854 * 10^-12;

d = input('Enter the distance (d) in meters: ');
L = input('Enter the length (L) in meters: ');
r = input('Enter the radius (r) in meters: ');

capacitance = (pi * epsilon * L) / log((d - r) / r);

fprintf('The capacitance (C) is: %e Farads\n', capacitance);
```

# Problem 8

```
function celsius = fahreinheit_to_celcius(fahrenheit)
    celsius = (5/9)*(fahrenheit - 32);
end
```

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