```
function [nd] = days(mo, da, leap)

% Sarah Verderame
% HOMEWORK 4, Problem 1: This code determines the number of elapsed
 days in a year. This function will begin counting the number of
 elasped days starting from January (mo = 1) First (da = 1). We are
 to assume when a leap year is a reality, we just add one day onto the
 number of elapsed days to represent the leap year.

% input variables:
% nd = number of days
% mo = month (1-12) (January being 1)
% da = day (1-31) We will assume all months have 31 days.
% leap = 0 for non-leap year and 1 for leap year

leap = menu('Is it a leap year (yes or no)?', 'Yes', 'No')
%yes==1, no==0 (But the menu function uses yes=1, no=2)

mo = input('What is the number of the month in question?')
da = input('What day of the month specified is it?')

if leap == 0 %if it is not a leap year
   if mo>1 %if the month is past January
       nd = (mo-1)*(31) + da;
   else
       nd = da;
   end
else
   if mo>1 %if the month is past January
       nd = (mo-1)*(31) + da + 1; %adding one day for a leap year
   else
       nd = da + 1; %add one day for a leap year
   end
end

%display number of days
sent='The number of elasped days is ';
a = [sent, num2str(nd), ' days.'];
disp(a);
```

```
leap =

     1


Error using input
Cannot call INPUT from EVALC.

Error in HW_4_Prob_1 (line 15)
mo = input('What is the number of the month in question?')
```

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