

Ex. 1 Write Matlab program to print a table of four columns where; the first column represents the average temperatures of seven days, the second column contains the average relative humidity in the same seven days, the third and fourth columns list the values of average wind speed in (m/s) and (km/hr) respectively during the seven days. Print the values of the table in two decimal digits accuracy.

Sol.

```
clear , clc
T = [ 10 , 12 , 13 , 12 , 11 , 9 , 7 ]';
RH = [ 0.4 , 0.45 , 0.5 , 0.44 , 0.42 , 0.38 , 0.34 ]';
Vms = [ 5 , 8 , 10 , 9 , 5 , 4 , 3 ]';
Vkmhr = Vms * 3600 / 1000 ;
R = [ T , RH , Vms , Vkmhr ] ;
fprintf ( ' Temp.    Rel. Hum.    Wind S. m/s    Wind S. km/hr \n ' )
fprintf ( ' ----- \n ' )
fprintf ( '    %5.2f    %5.2f    %5.2f    %5.2f    \n', R ' )
```

Ex. 2 Write Matlab code to evaluate the following function for values of x from 0 to 1 at a step of 0.1 : $y = x^2 + 1$, $z = (y + x) / 2$

Print the results in the form of a table with three decimal digits accuracy.

Sol.

```
clear , clc
x = 0 : 0.1 : 1 ;
y = x . ^ 2 + 1 ;
z = ( y + x ) . / 2 ;
R = [ x ; y ; z ] ;
disp ( [ '    x        y        z ' ] )
disp ( [ ' ----- ' ] )
fprintf ( '    %5.3f    %5.3f    %5.3f \n', R )
```