%script file:free\_fall

%objective:To find the position of ball

%Record of revision

% date programmer description of change

% ==== ========== =====================

% 09/08/15 satyabrat sahoo original code

%

%Define variables

%x1=intial position

%v1=initial velocity

%t=time

%a=accelerarion

%x=distance travelled

%prompt the user for the input variables

x1 = input('initial position=');

v1 = input('initial velocity=');

t = input('time=');

a = input('accelerarion=');

%calculation

x=(x1)+(v1\*t)+(1/2)\*(a)\*(t^2);

%write the result

disp(x);

\

% script\_file:script\_addition

%

% objective:

% To add four inputs.

%

% Record of revision

% Date Programmer Description of change

% ==== ========== =====================

% 07/08/15 Satyabrat sahoo Original code

%

% Define variables

% num\_a -- first input

% num\_b -- second input

% num\_b -- third input

% num\_d -- fourth input

% num\_e -- sum of four inputs

%

% Prompt the user of the input variables

num\_a = input('Enter the first number:');

num\_b = input('Enter the second number:');

num\_c = input('Enter the third number:');

num\_d = input('Enter the fourth number:');

%

% Add the four inputs

num\_e = (num\_a)+(num\_b)+(num\_c)+(num\_d);

%

% Write the result

disp(num\_e);

%script file: Distance\_formula

%

%objective:To determine the distance between two points in x-y plane

%

%Record of revisions

% Date programmer description of change

% ==== ========== =====================

% 07/08/15 satyabrat sahoo original code

%

%Define variables

% x1 -- coordinates of point 1 in x axis

% y1 -- coordinates of point 1 in y axis

% x2 -- coordinates of point 2 in x axis

% y2 -- coordinates of point 2 in y axis

% Distance -- Distance between two points

%

%prompt the user for the input variables

x1 = input('coordinates of point 1 in x axis');

y1 = input('coordinates of point 1 in y axis');

x2 = input('coordinates of point 2 in x axis');

y2 = input('coordinates of point 2 in y axis');

%calculation

Distance = ((x2-x1)^2+(y2-y1)^2)^(1/2);

%write the result

disp('Distance between two points')

disp(Distance);

clc;clear all;close all;

x=(0:0.1:15);

y=sin(x);

plot(x,y)

clc;clear all;close all;

%script file:calc\_area

%objective:To find area of circle

%Record of revision

% date programmer description of change

% ==== ========== =====================

% 12/08/15 satyabrat sahoo original code

%

%Define variables

%r=radius of circle

%prompt the user for the input variables

r = input('radius of circle = ');

%calculation

area=pi\*r^2;

%write the result

disp('area = ');

disp(area)