# Assignment Number: 1.5

# Problem Statement:

To find the distance between two points in xy-plane.

# Inputs :

Two Points P1 and P2 having xy-coordinates (x1, y1) and (x2, y2) respectively.

# Outputs:

*dist*=Distance between two points P1 and P2

# Pseudocode:

* Read two points P1 and P2 having xy-coordinates (x1,y1) and (x2,y2)
* Calculate the distance between two points
* Display *dist*

# Program : ss\_distance.m

% Script File: ss\_distance

% Purpose: Determine the distance between two points in xy-plane.

% Record of Revision:

% Name Date Original

% Variable declaration

% Input Variables

% x1—x-coordinate of point P1

% y1— y-coordinate of point P1

% x2— x-coordinate of point P2

% y2— y-coordinate of point P2

% Output Variable

% dist--— distance between two points P1 and P2

%%

clc;

clear all;

close all;

% Prompt the user to enter inputs

x1=input(‘Enter the x-coordinate of point P1’);

y1= input(‘Enter the y-coordinate of point P1’);

x2= input(‘Enter the x-coordinate of point P2’);

y2 =input(‘Enter the y-coordinate of point P2’);

% calculation of distance

dist=\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*;

% Display the result

disp(‘the distance is‘);

disp(dist);

# Test Results:

1.

Enter the x-coordinate of point P1=0

Enter the y-coordinate of point P1=3

Enter the x-coordinate of point P2=4

Enter the y-coordinate of point P2=0

the distance is

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