# Assignment Number: 3.8

# Problem Statement:

Write a MATLAB program to prompt the user to input the distance in meter and convert it to centimeter, millimeter, feet and inch using switch structure.

# Inputs:

Two variable named ‘d’ and ‘value’

# Outputs:

To display ‘d’ in centimeter, millimeter, feet and inch.

# Pseudocode:

* Read the value entered into the variable ‘d’.
* Calculate the result according to the value entered by user.
* Display the result.

# Program : dis\_conv.m

% Script File: dis\_conv

% Purpose: Determine the value of y(x)

% Record of Revision:

% Akash jaiswal 15/09/2015 Original

% Variable declaration

% Input Variables

% d—the value of d

%value—the choice entered by user

% Output Variable

% z-the result.

%%

clc

clear all

close all

d=input('enter the distance in meter: ');

value=input('enter the choice: 1-centinmeter, 2-millimeter, 3-feet and 4-inch \n');

switch(value)

case{1}

z=d\*100;

fprintf('the distance in centimeter is: %f\n',z);

case{2}

z=d\*1000;

fprintf('the distance in millimeter is: %f\n',z);

case{3}

z=d\*3.280;

fprintf('the distance in feet is: %f\n',z);

case{4}

z=d\*39.37;

fprintf('the distance in inch is: %f\n',z);

otherwise

disp('illegal choice of conversion');

end

# Test Result:

enter the distance in meter: 52

enter the choice: 1-centinmeter, 2-millimeter, 3-feet and 4-inch

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the distance in feet is: 170.560000