# Assignment Number: 5-c-5

# Problem Statement:

Write a MATLAB program using function to check whether a number is prime or not?

# Inputs:

* Input a number x

# Outputs:

* Entered number is prime or not

# Pseudocode:

* Create a function with 1 output and 1 input argument
* Initialize a counter t=0
* Calculate the remainder of the number entered from 1 to x
* If the remainder is equal to 0 then increase the counter with 1
* When the counter will be 2 then display the message that the entered “number is prime number” else display “not a prime number”
* stop

# Program: prime.m

script file : prime

% objective :

% to check whether the number is prime or not

% record of revision :

% DATE PROGRAMMER DESCRIPTION OF CHANGE

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

% 10/11/2015 Satyabrat sahoo ORIGINAL COPY

% define variable :

% t-counter or checker

%x- any number

function p=prime(n)

c=0;

for i=1:n

if(mod(n,i)==0)

c=c+1;

end

end

if(c==2 || n==1)

p='Yo,u got a prime no';

else

p='No,its not a prime no';

end

end

# Test Results:

>> prime(12)

ans =

No,its not a prime no

>> prime(7)

ans =

Yo,u got a prime no