**MC Expt-1**

Code :

clc;

clear all;

close all;

a1=input('Enter area : ');

a2=input('Enter area of each cell : ');

s1=input('Enter no of channels : ');

size=input('Enter cluster size : ');

area1=a2\*size;

m1=a1/area1;

k1=s1/size;

c1=m1\*s1;

m1

k1

disp('System Capacity : ')

disp(c1)

%q=((3\*0.2)^0.5);

%disp(q)

q=input('Enter the Reuse Factor : ');

r=(((a2\*2)/(3\*1.732))^0.5)

d=q\*r;

disp('Minimum Re-usable distance : ')

disp(d)

Output :

Enter area : 4200

Enter area of each cell : 12

Enter no of channels : 1001

Enter cluster size : 7

m1 =

50

k1 =

143

System Capacity :

50050

Enter the Reuse Factor : 12

r =

2.1492

Minimum Re-usable distance :

25.7901