**Code:**

clc;

clear all;

close all;

Asys=4200;

s=1001;

n1=7;

n2=4;

Acell=12;

q=12;

k1=s/n1;

k2=s/n2;

m1=Asys/(Acell\*n1);

m2=Asys/(Acell\*n2);

c1=m1\*s;

c2=m2\*s;

r=power((2\*Acell)/(3\*power(3,0.5)),0.5);

D=q\*r;

m=((m2-m1)/m1)\*100;

disp('nos of channels per cell when n=7')

disp(k1)

disp('nos of channels per cell when n=4')

disp(k2)

disp('capacity when n=7')

disp(c1)

disp('capacity when n=4')

disp(c2)

disp('capacity increase')

disp(m)

disp('radius')

disp(r);

disp('min reusuable distance')

disp(D)

