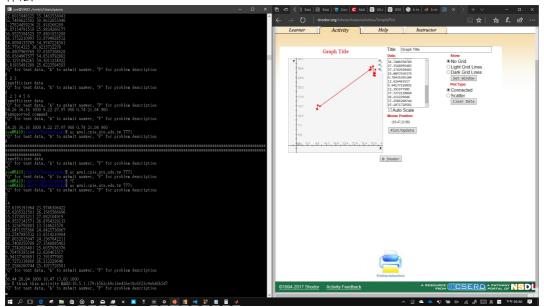
## Wireless Networking - Fundamentals and Applications Activity #1

## Multiplexing & Multiplexing-p3

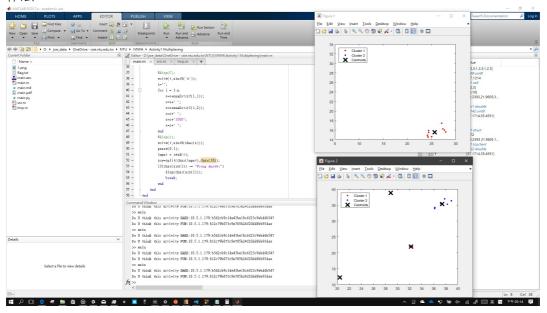
• flag

Do U think this activity HARD:10.5.1.179:b562cb9c1de43be18c6f23c9ebd6b547 Do U think this activity FUN:10.5.1.179:812c79b073c9e705b24f20dd8bb93dae

作法1



作法2



○ 使用 k-means, 然後 Tx power 固定設成 1000mW, 當發現 Wrong Answer 的時候就重新試一次

```
for port = 7771:7772
while(1)
    t = tcpclient('mvnl.csie.ntu.edu.tw', port);
    while(t.BytesAvailable==0)end
    A = read(t);
    %disp(char(A));
    write(t,[uint8('Q'),10]);
    while(t.BytesAvailable==0)end
    pause(0.1);
    input = read(t);
    ary=split(char(input),char(10));
    n=sscanf(char(ary(1)),'%d');
    %disp(n);
    m=sscanf(char(ary(2)),'%d');
    %disp(m);
    X = [];
    for i = 1:m
        li=sscanf(char(ary(2+i)),'%f %f');
        Y = [li(1), li(2)];
        X = [X;Y];
    end
    %disp(X);
    %disp(n);
    opts = statset('Display', 'final');
    [idx,C] = kmeans(X,n);
    figure;
    plot(X(idx==1,1),X(idx==1,2),'r.','MarkerSize',12)
    plot(X(idx==2,1),X(idx==2,2),'b.','MarkerSize',12)
    plot(C(:,1),C(:,2),'kx',...
        'MarkerSize',15,'LineWidth',3)
    legend('Cluster 1','Cluster 2','Centroids',...
        'Location','NW')
    %disp(C);
    write(t,uint8('A'));
    s="";
    for i = 1:n
        s=s+num2str(C(i,1));
        s=s+" ";
        s=s+num2str(C(i,2));
        s=s+" ";
        s=s+"1000";
        s=s+" ";
    end
    %disp(s);
    write(t,uint8(char(s)));
    pause(0.1);
    input = read(t);
    ary=split(char(input),char(10));
```