

1. Program JST

a. Program pemodelan dan pelatihan

```
clc;clear;close all;
% Proses membaca data latih dari excel
filename = 'DTN5.xlsx';
sheet = 1;
xlRange = 'E3:N128';

Data = xlsread(filename, sheet, xlRange);
data_latih = Data(:,1:9)';
target_latih = Data(:,10)';
[m,n] = size(data_latih);

net = newff(data_latih,target_latih,[100 5],{'logsig','logsig'},'trainlm');
net.trainParam.epochs = 500;
net.trainParam.goal = 1e-5;
net = train(net,data_latih,target_latih);
outputt = round(sim(net,data_latih));
save net.mat net
```

b. Program pengujian JST

```
clc;clear;close all;
% Proses membaca data latih dari excel
filename = 'DTSN5.xlsx';
sheet = 1;
xlRange = 'E3:M16';

Data = xlsread(filename, sheet, xlRange);
data_test = Data(:,1:9);
[m,n] = size(data_test);
load net
output = round(sim(net,data_test))
```