

LAMPIRAN

Program implementasi motor DC

```
//Inisialisasi parameter Motor DC
J=0.02;
R=2;
L=0.5;
Kb=0.15;
Kf=0.2;
Km=0.15;

//Inisialisasi persamaan matematis Motor DC
A=[0 1 0;0 -Kf/J Km/J;0 -Kb/L -R/L]
B=[0;0;1/L]
C=[1 0 0]

//Mengecek controllable
M=[B A*B A*A*B]
rank(M)

//Nilai close loop pole yang diinginkan
J=[-10 -7 -5]

//Mencari nilai gain state feedback 'K'
K=acker(A,B,J)
k1=K(1)
k2=K(2)
k3=K(3)
```