Code:-

```
1
           k1 = 10; k4 = k1; k2 = 30; k3 = k2;
  2
           x1 = 0.05; x2 = 0.04; x3 = 0.03;
  3
           m = 1;
           k = [(k1+k2)/m - k2/m \ 0; \ -k2/m \ (k2+k3)/m \ -k3/m; \ 0 \ -k3/m \ (k3+k4)/m];
  4
  5
           x= [x1; x2; x3];
  6
           a = -k*x;
  7
           disp("The acceleration of mass are:");
  8
           disp(a);
```

Result:-

```
>> LAB3
The acceleration of mass are:
-0.8000
0
0
```