```
Code for Exercise 5
angle=unnamed(:,1);
y=unnamed(:,2);
Mo=8.8;
M=Mo*cosd(angle).^2;
M1=Mo*(cosd(angle));
plot(angle,y,'b')
hold on
plot(angle,M,"r")
plot(angle,M1,'m')
2.5 2.5 2.5 2.5 2.5], "horizontal")
legend("Meter Reading
(mA)","Mo*cos^2(Angle)","Mo*cos(Angle)","Horizontal Error
Bar","Vertical Error Bar")
xlabel("Angle (Degrees)")
ylabel("Meter Reading (mA)")
Code for Exercise 6
angle=unnamed(1:5,3);
y=unnamed(1:5,4);
plot(angle,y,'b')
hold on
errorbar(angle, y, [2.5 2.5 2.5 2.5], "horizontal")
errorbar(angle,y,[0.05 0.05 0.05 0.05],"vertical")
xlabel("Angle (Degrees)")
ylabel("Meter Reading (mA)")
```