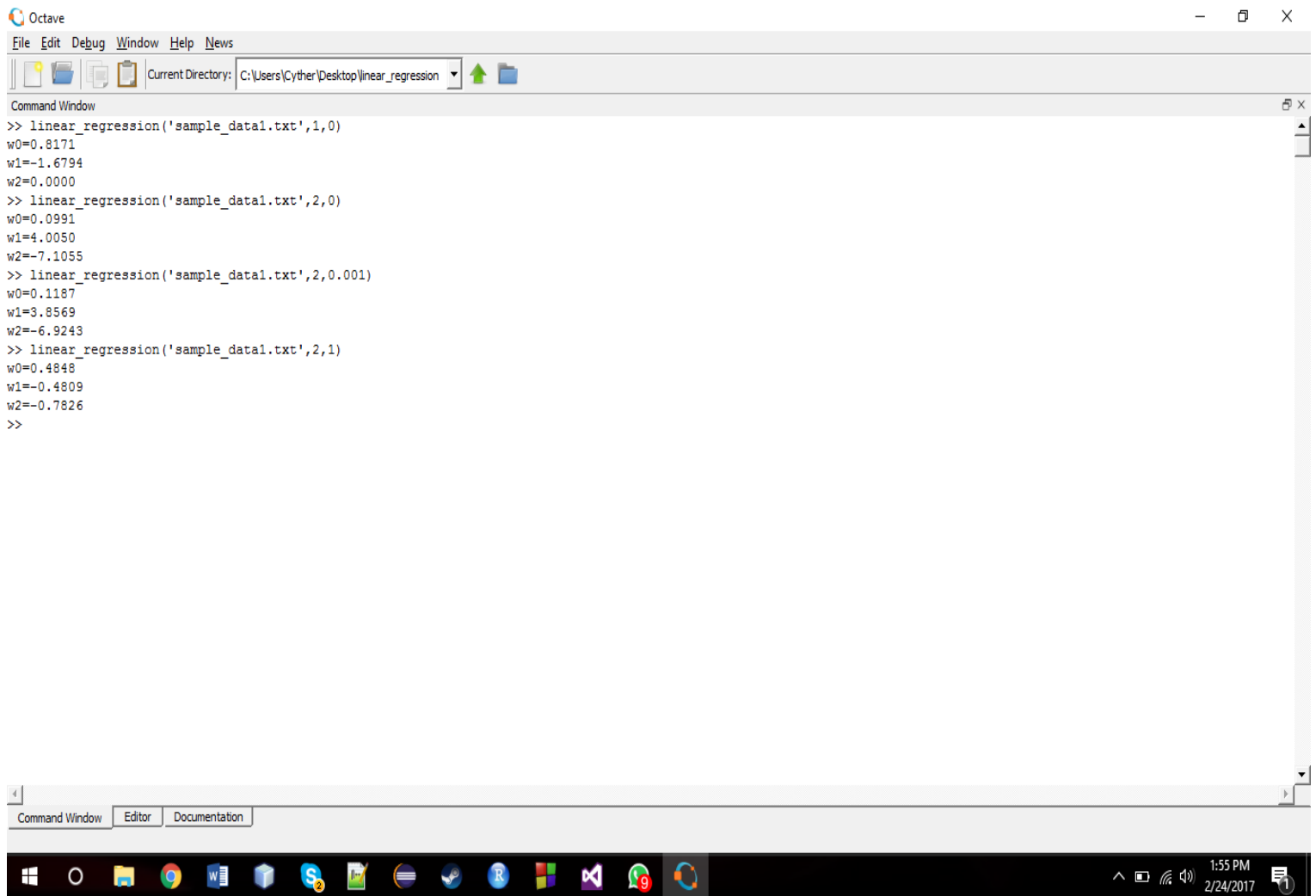


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**Course Name: Machine Learning**  
**Course Number: 6363**

#### Assignment 4: Linear Regression

linear\_regression.m >> output



```
Octave
File Edit Debug Window Help News
Current Directory: C:\Users\Cyther\Desktop\linear_regression
Command Window
>> linear_regression('sample_data1.txt',1,0)
w0=0.8171
w1=-1.6794
w2=0.0000
>> linear_regression('sample_data1.txt',2,0)
w0=0.0991
w1=4.0050
w2=-7.1055
>> linear_regression('sample_data1.txt',2,0.001)
w0=0.1187
w1=3.8569
w2=-6.9243
>> linear_regression('sample_data1.txt',2,1)
w0=0.4848
w1=-0.4809
w2=-0.7826
>>
```

The screenshot shows the Octave software interface. The Command Window displays the results of four calls to the `linear_regression` function. Each call provides the intercept ( $w_0$ ), the first coefficient ( $w_1$ ), and the second coefficient ( $w_2$ ) for a linear regression model. The parameters for each call are: 1) `linear_regression('sample_data1.txt',1,0)`, 2) `linear_regression('sample_data1.txt',2,0)`, 3) `linear_regression('sample_data1.txt',2,0.001)`, and 4) `linear_regression('sample_data1.txt',2,1)`. The Windows taskbar at the bottom shows the time as 1:55 PM on 2/24/2017.