```
Editor - C:\Users\Ivani\Desktop\580\hw4.m
  lec5.m × hw3.m × hw4.m × hw5.m ×
          Z=csvread('Cereals no alpha.csv');
  1
  2
           [rows,cols]=size(Z);
  3
          disp([rows,cols])
  4
          sugar=Z(:,7);
  5
          fiber=Z(:,5);
  6
          rating=Z(:,13);
  7
          protein=Z(:,2);
  8
          fat=Z(:,3);
 9
          sodium=Z(:,4);
10
11
          [b0,b1,b2,rsq,s,F,StdRes] = linfit2D(sugar,fiber,rating);
12
13
          [b0_p,b1_p,b2_p,b3_p,rsq_p,StdErrEst_p,StdRes_p] = linfit3D(sugar, fiber, protein, rating);
14
15
          [b0_f,b1_f,b2_f,b3_f,rsq_f,StdErrEst_f,StdRes_f] = linfit3D(sugar, fiber, fat, rating);
16
17
          [b0_s,b1_s,b2_s,b3_s,rsq_s,StdErrEst_s,StdRes_s] = linfit3D(sugar, fiber, spdium, rating);
18
          % Create a table
19
          T = table({'Sugar, Fiber'; 'Protein'; 'Fat'; 'Sodium'}, [rsq; rsq_p; rsq_f; rsq_s], ...
20
21
              [s; StdErrEst_p; StdErrEst_f; StdErrEst_s], 'VariableNames', {'Name', 'Rsq', 's(StdErrEst)'});
22
23
          % Display the table
24
          disp(T);
```

```
Editor - C:\Users\Ivani\Desktop\580\hw4.m
       lec5.m
         %rsq difference
26
         rsq_difference1 = rsq - rsq_p;
27
         rsq_difference2 = rsq - rsq_f;
28
         rsq_difference3 = rsq - rsq_s;
29
30
31
         s_diff1 = s - StdErrEst_p;
32
         s_diff2 = s - StdErrEst_f;
         s diff3 = s - StdErrEst s;
33
34
35
         % Create a table
         T = table({'Protein'; 'Fat'; 'Sodium'}, [rsq_difference1; rsq_difference2; rsq_difference3], ...
36
37
             [s_diff1; s_diff2; s_diff3], 'VariableNames', {'Name', 'Difference R^2', 'Difference s(StdErrEst)'});
38
39
         % Display the table
40
         disp(T);
```

## Command Window

New to MATLAB? See resources for Getting Started.

Name		Rsq	s(StdErrEst)
	_		
{'Sugar, Fiber'	}	0.81199	6.1727
{'Protein'	}	0.812	6.2146
{'Fat'	}	0.86781	5.2111
{'Sodium'	}	0.90326	4.4581
Name	Dif	ference_R^2	Difference_s(StdErr
{'Protein'}	-1	.0561e-05	-0.04196
{'Fat' }		-0.055822	0.96153
{'Sodium' }		-0.091265	1.7146

