(Edited) Output for Homework 6

```
/* Here is part of the SAS program that generated the output below */
proc reg;
  model co = tar nicotine weight  / partial r influence vif;
  id brand;
run;
```

The REG Procedure
Model: MODEL1
Dependent Variable: co

Analysis of Variance

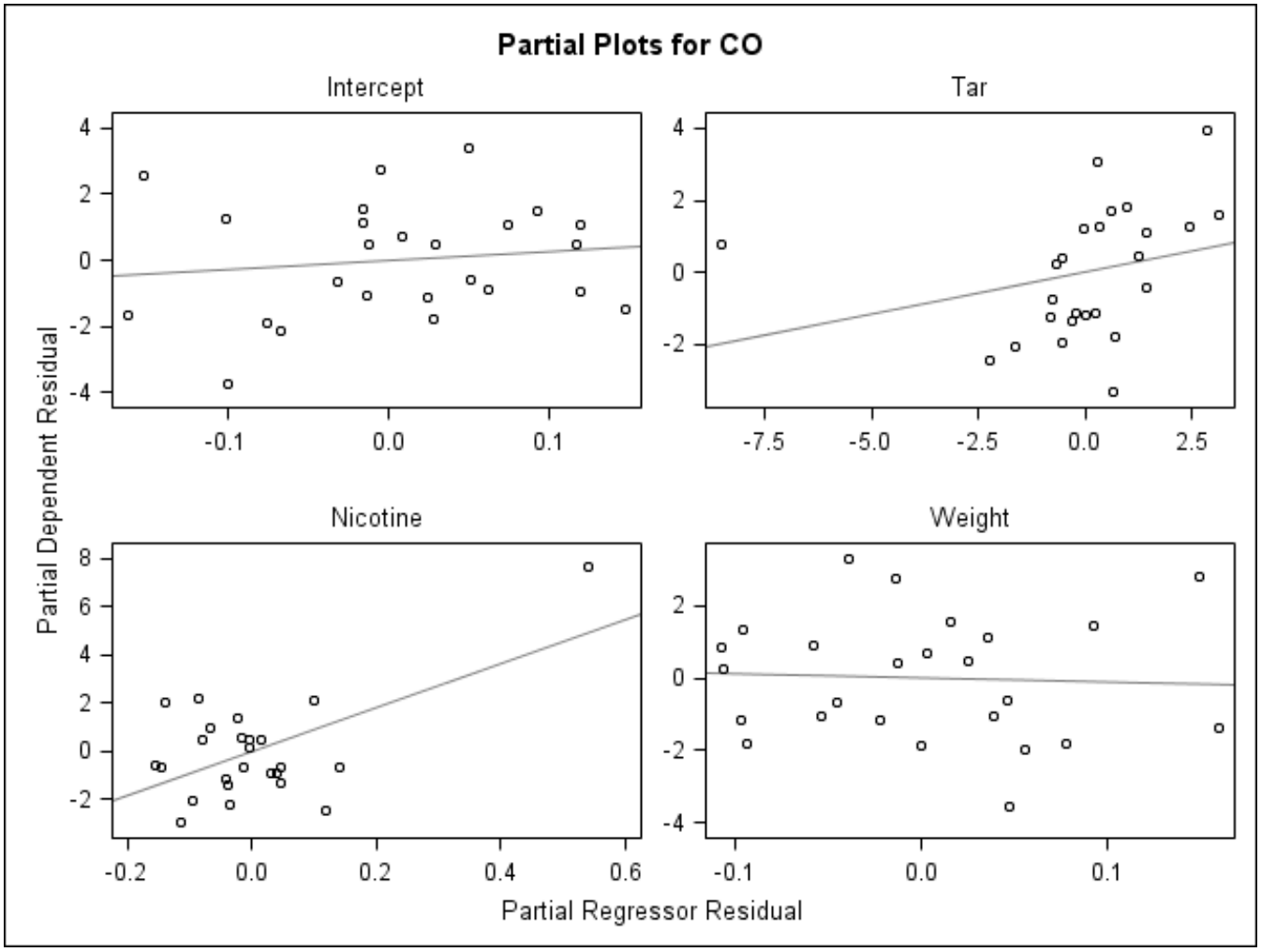
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	468.46777	156.15592	46.39	<.0001
Error	21	70.68263	3.36584		
Corrected Total	24	539.15040			

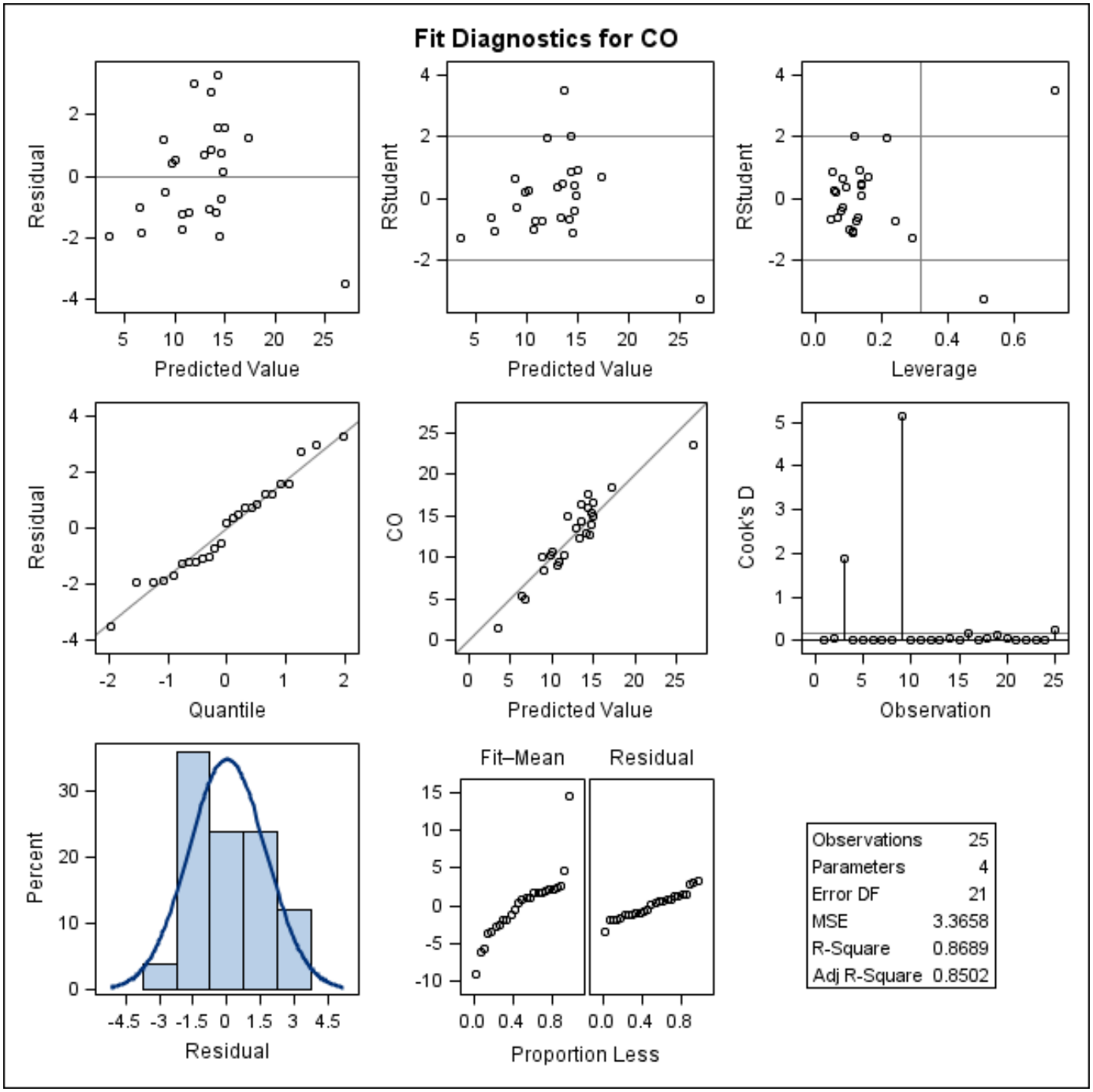
Parameter Estimates

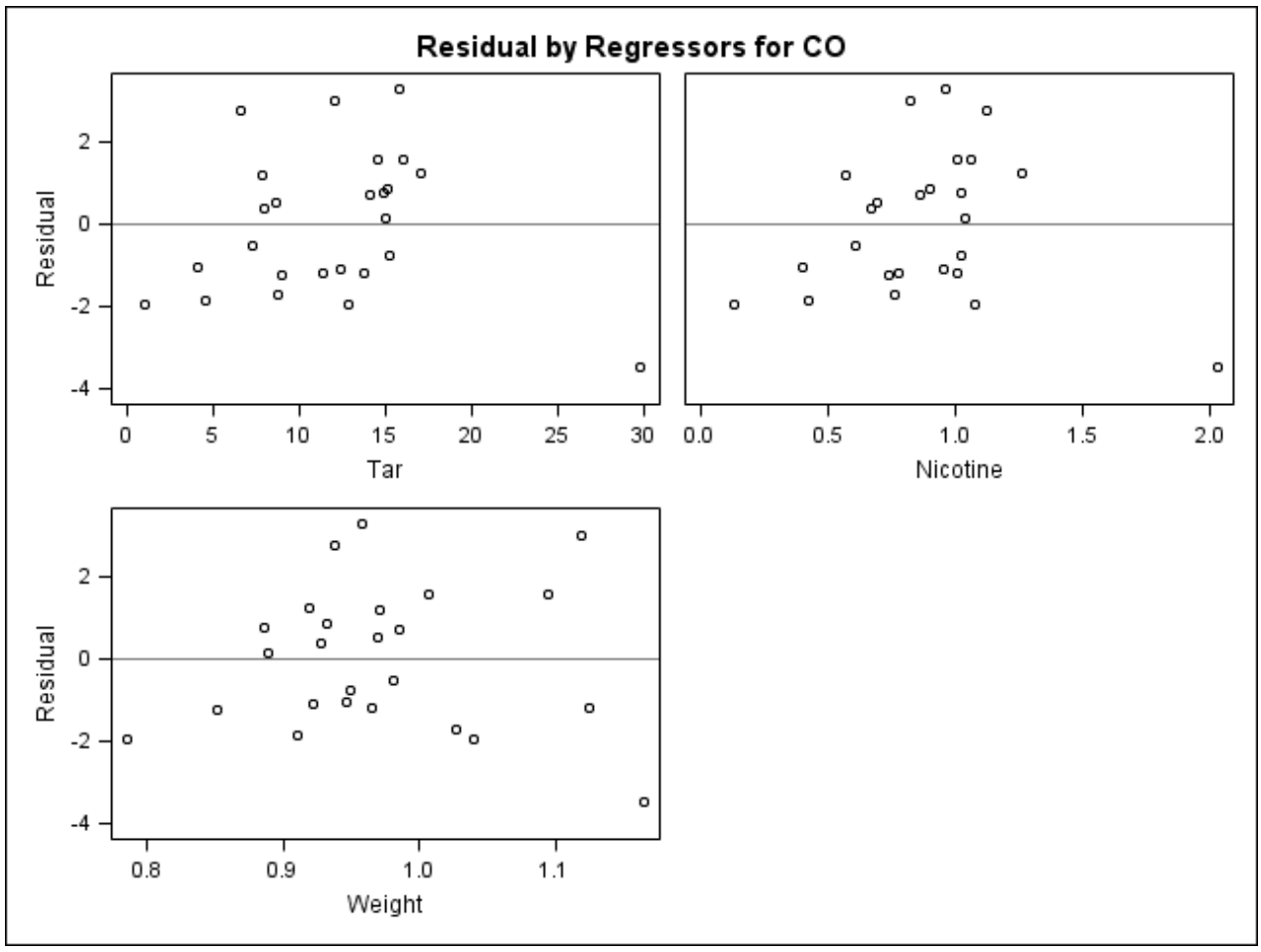
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|	Variance Inflation
Intercept	1	2.84067	4.45603	0.64	0.5307	0
tar	1	0.23244	0.17111	1.36	0.1887	6.77380
nicotine	1	9.08100	2.72371	3.33	0.0031	6.63116
weight	1	-1.04894	4.99710	-0.21	0.8358	1.37014

Output Statistics

Obs	brand	Student Residual	-2-1 0 1 2	Cook's D	RStudent	Hat Diag H
1	1	0.404	| | |	0.004	0.3960	0.0942
2	2	0.914	| |* |	0.032	0.9105	0.1329
3	3	-2.697	| *****| |	1.857	-3.2549	0.5053
4	4	0.219	| | |	0.001	0.2137	0.0602
5	5	-0.604	| *| |	0.014	-0.5947	0.1302
6	6	0.0942	| | |	0.000	0.0919	0.1376
7	7	-0.985	| *| |	0.028	-0.9843	0.1038
8	8	-0.610	| *| |	0.007	-0.6009	0.0657
9	9	2.823	| |***** |	5.141	3.4980	0.7207
10	10	0.448	| | |	0.008	0.4396	0.1405
11	11	-0.663	| *| |	0.006	-0.6537	0.0496
12	12	0.501	| |* |	0.010	0.4921	0.1380
13	13	0.676	| |* |	0.010	0.6672	0.0828
14	14	-0.748	| *| |	0.045	-0.7397	0.2417
15	15	-0.732	| *| |	0.019	-0.7240	0.1217
16	16	-1.250	| **| |	0.160	-1.2676	0.2913
17	17	0.731	| |* |	0.025	0.7228	0.1600
18	18	-1.118	| **| |	0.039	-1.1248	0.1115
19	19	1.899	| |*** |	0.120	2.0362	0.1172
20	20	-1.067	| **| |	0.036	-1.0711	0.1118
21	21	0.881	| |* |	0.011	0.8760	0.0521
22	22	-0.312	| | |	0.002	-0.3052	0.0824
23	23	0.287	| | |	0.001	0.2807	0.0578
24	24	-0.420	| | |	0.004	-0.4113	0.0756
25	25	1.844	| |*** |	0.234	1.9659	0.2155


Partial Plots for CO
Intercept
Tar
Nicotine
Weight
Partial Dependent Residual
Partial Regressor Residual


Fit Diagnostics for CO
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
CO
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 25
Parameters 4
Error DF 21
MSE 3.3658
R-Square 0.8689
Adj R-Square 0.8502


Residual by Regressors for CO
Residual
2
0
-2
-4
0
5
10
15
20
25
30
Tar
0.0
0.5
1.0
1.5
2.0
Nicotine
Residual
2
0
-2
-4
0.8
0.9
1.0
1.1
Weight