Practical week 1-Solutions

```
temp=lm(Y~X,data=Salt)
summary(temp)
Coefficients:
            Estimate Std. Error t value Pr(>|t|)
                       1.64570 33.64 4.59e-08 ***
(Intercept) 55.35833
                         0.03934 12.45 1.64e-05 ***
             0.48976
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
Residual standard error: 2.55 on 6 degrees of freedom
Multiple R-squared: 0.9627, Adjusted R-squared: 0.9565
F-statistic: 155 on 1 and 6 DF, p-value: 1.641e-05
anova(temp)
Analysis of Variance Table
Response: Y
          Df Sum Sq Mean Sq F value
           1 1007.4 1007.4 154.99 1.641e-05 ***
Residuals 6 39.0
                         6.5
Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
plot(Salt$Y,Salt$X)
                       2
                       90
                       20
                       4
                       30
                       20
                       9
                                60
                                       70
                                              80
                                      Salt$Y
```

Descriptive Statistics

2000::p:::0 0::::::00						
	Mean	Std. Deviation	N			
Υ	72.500	12.2267	8			
Χ	35.00	24.495	8			

Model Summary

			Adjusted R	Std. Error of the	
Model	R	R Square	Square	Estimate	
1	.981ª	.963	.957	2.5495	

a. Predictors: (Constant), X

ANOVA^a

Mode	l	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	1007.440	1	1007.440	154.992	.000 ^b
	Residual	39.000	6	6.500		
	Total	1046.440	7			

a. Dependent Variable: Y

b. Predictors: (Constant), X

Coefficients^a

		Unstandardize	ed Coefficients	Standardized Coefficients		
Model		В	Std. Error	Beta	t	Sig.
1	(Constant)	55.358	1.646		33.638	.000
	Χ	.490	.039	.981	12.450	.000

a. Dependent Variable: Y