Tim Miller
Analytics Edge | HW0

Problem 1

```
> summary(iris)
  Sepal.Length    Sepal.Width     Petal.Length    Petal.Width          Species
 Min.   :4.300   Min.   :2.000   Min.   :1.000   Min.   :0.100   setosa    :50
 1st Qu.:5.100   1st Qu.:2.800   1st Qu.:1.600   1st Qu.:0.300   versicolor:50
 Median :5.800   Median :3.000   Median :4.350   Median :1.300   virginica :50
 Mean   :5.843   Mean   :3.057   Mean   :3.758   Mean   :1.199
 3rd Qu.:6.400   3rd Qu.:3.300   3rd Qu.:5.100   3rd Qu.:1.800
 Max.   :7.900   Max.   :4.400   Max.   :6.900   Max.   :2.500
```

Problem 2

R^2 of the linear regression is 0.7539. Details below.

```
> summary(mod)

Call:
lm(formula = LogAuctionIndex ~ . - Year, data = wine)

Residuals:
    Min      1Q  Median      3Q     Max
-0.7040 -0.2633 -0.0705  0.2548  0.7219

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   3.2158448  8.3224642   0.386    0.701
HarvestRain  -0.0044695  0.0008301  -5.384 3.70e-06 ***
GrowTemp      0.6279546  0.1020578   6.153 3.18e-07 ***
HarvestTemp  -0.0322375  0.0462512  -0.697    0.490
Age          -0.0150799  0.0444732  -0.339    0.736
FrancePop    -0.1061962  0.1297533  -0.818    0.418
USAlcConsump  0.0486833  0.0993300   0.490    0.627
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Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 0.3499 on 39 degrees of freedom
Multiple R-squared:  0.7539,    Adjusted R-squared:  0.716
F-statistic: 19.91 on 6 and 39 DF,  p-value: 1.736e-10
```