Question 1

Ho: mean=7000USD

Ha: mean is not =7000USD

P-value according to t-test is 0.0174,

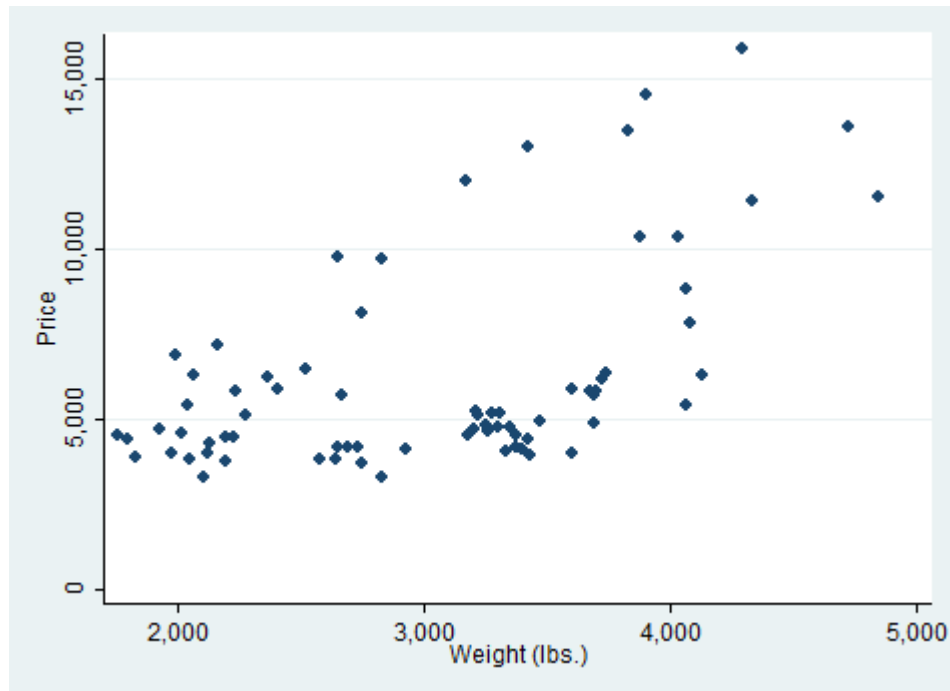Decision is reject Ho=7000USD because p-value (0.0174) <alpha 0.05.

Question 2

Ho; foreign cars are more expensive than domestic cars

Ha; foreign cars are not more expensive than foreign cars

P-value=0.6802

Decision: Fail to reject null; P-value (0.6802) > alpha value (0.05)

Question 3

There is a weak positive correlation between weight and price of 0.5386

Question 4

The following independent variables are statistically significant in predicting price of a car

rep78, weight, and length because their p-value is less than 0.05

Price=12207.61-107.6681(mpg)+943.1564(rep78) +3.920286(weight)-108.6199(length)

+8.000397(displacement)