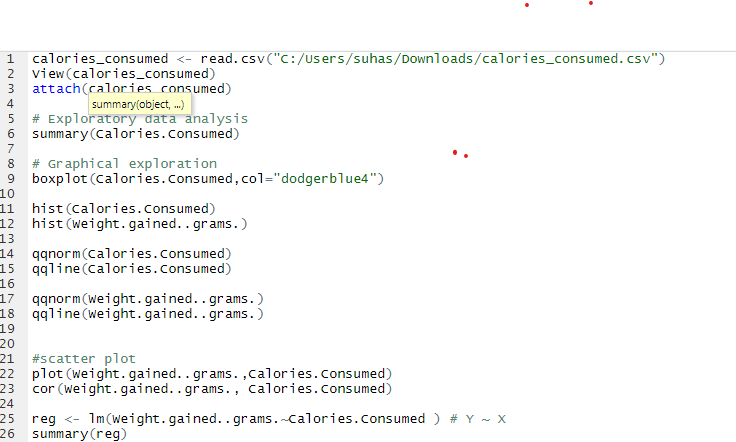
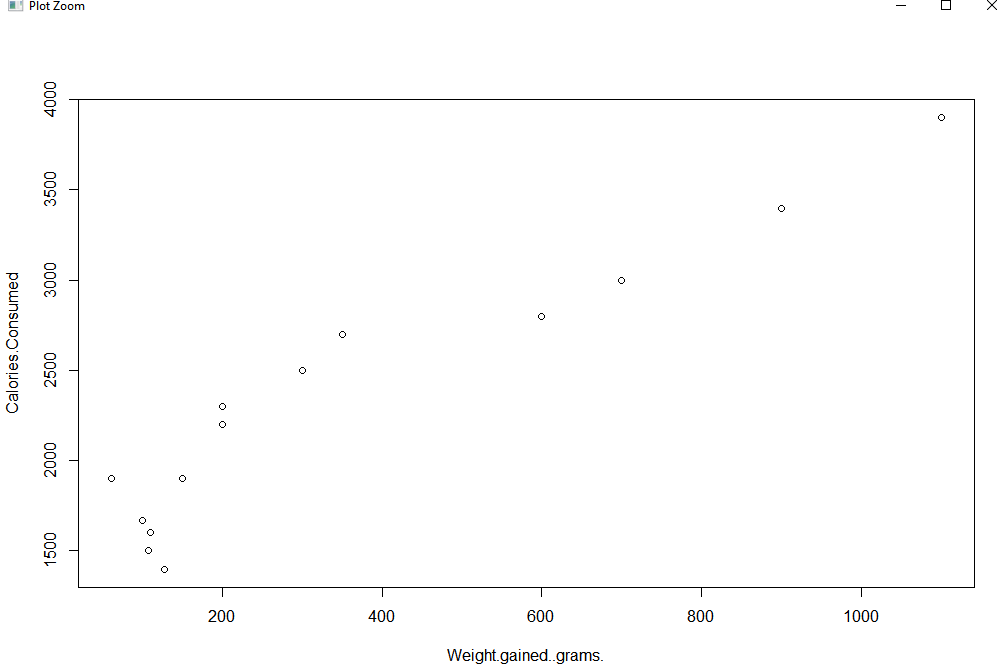
**Assignment on Simple Linear Regression**

Question 1 ) Calories consumed-> predict weight gained using calories consumed

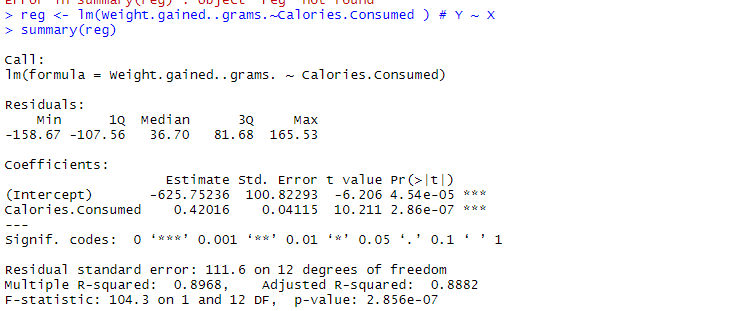
**Ans : R code**

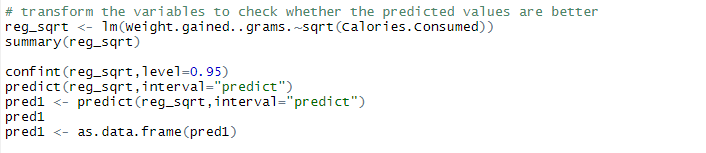


**-----Scatter Plot**

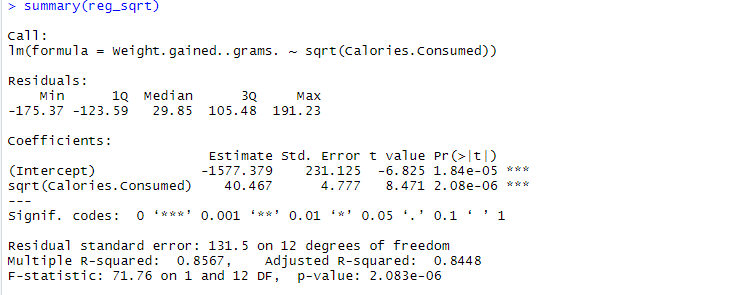


**Output 1 :**



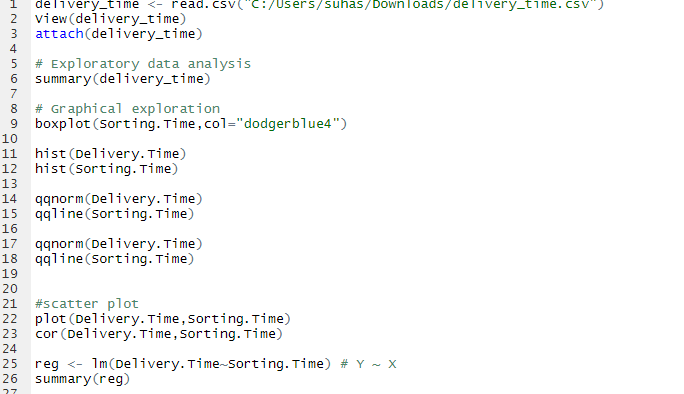


**Output 2 with Squared inputs**

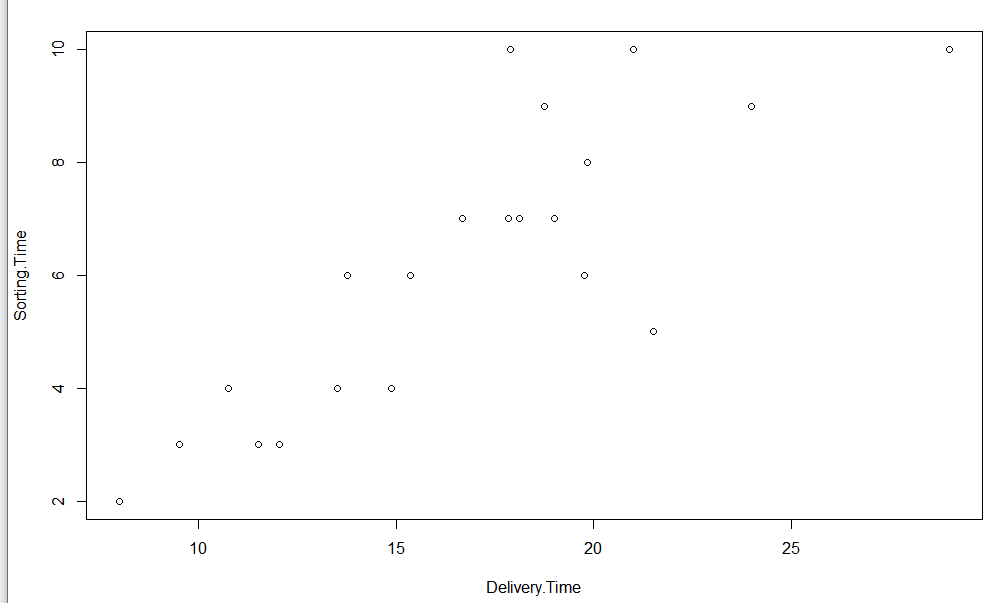


Question 2) Delivery time -> Predict delivery time using sorting time

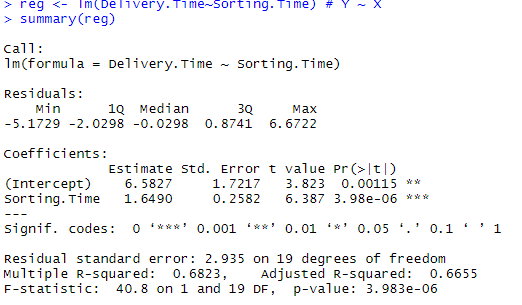
**Ans :Rcode:**



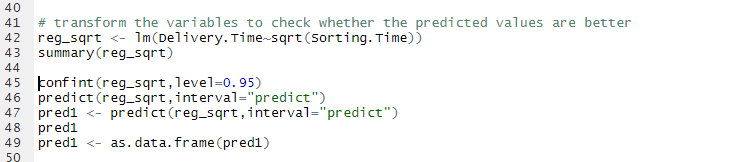
**Scatter Plot**



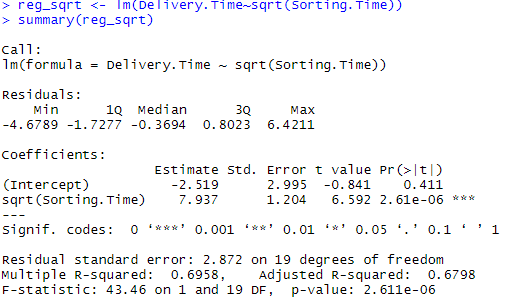
**Output 1 :**



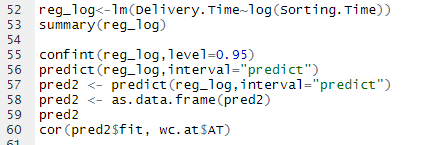
**Transforming Inputs**

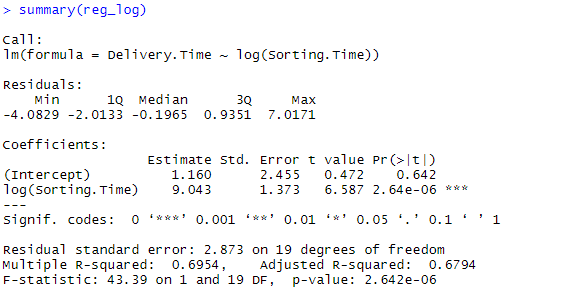


**Output 2 with Squared inputs**

****

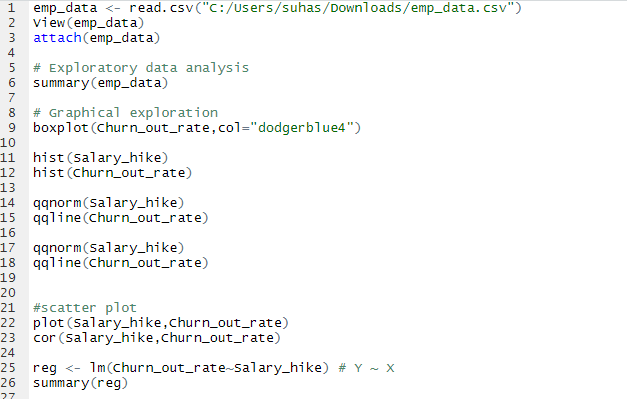
**Output 3 taking log of input**

****

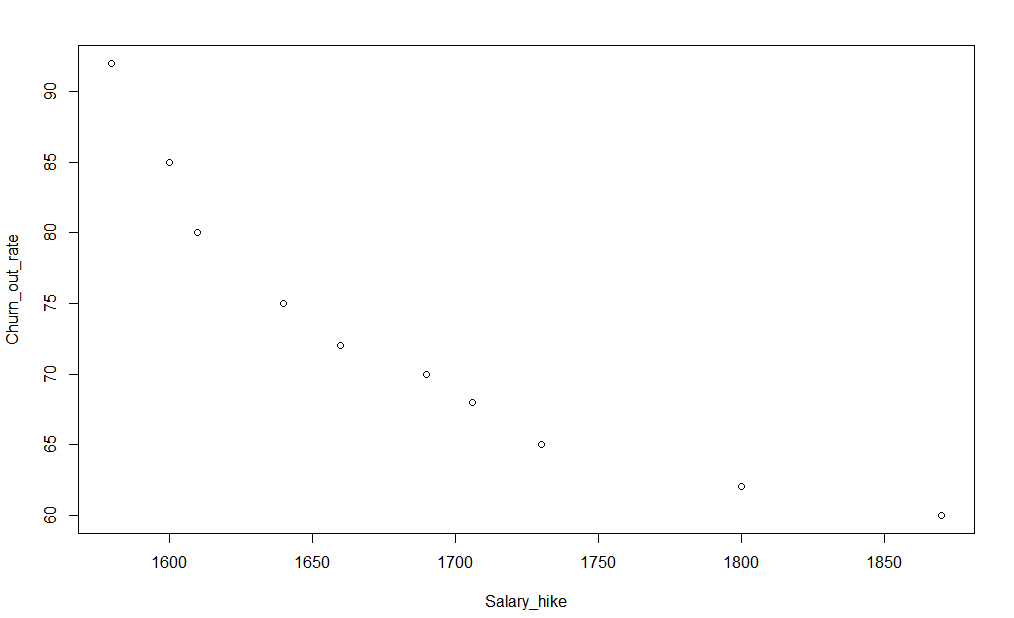
****

Question 3) Emp\_data -> Build a prediction model for Churn\_out\_rate

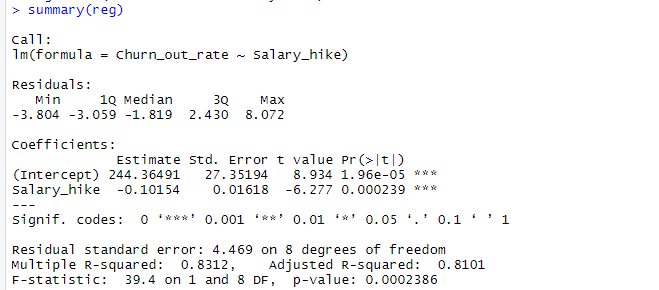
**Ans : R code**



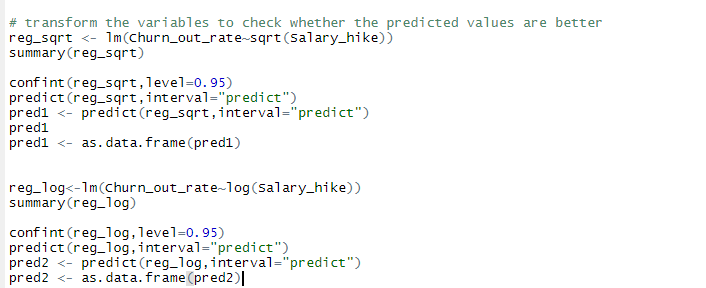
**Scatter Plot**



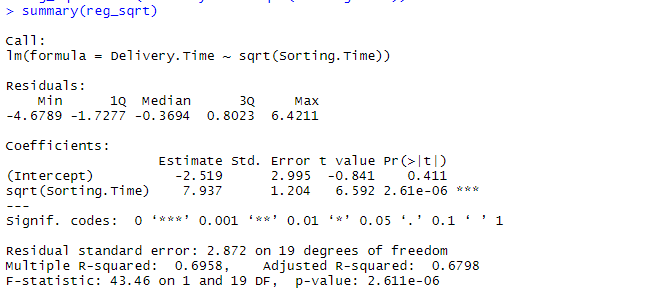
**Output 1 :**

****

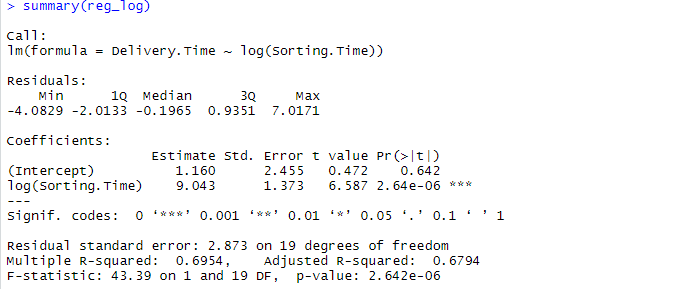
**Transforming Inputs**



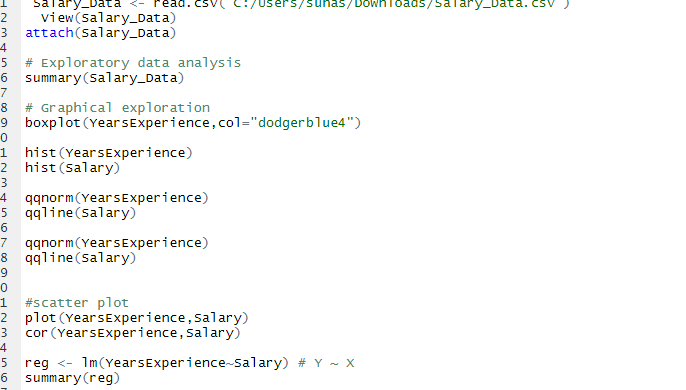
**Output 2 with Squared inputs**



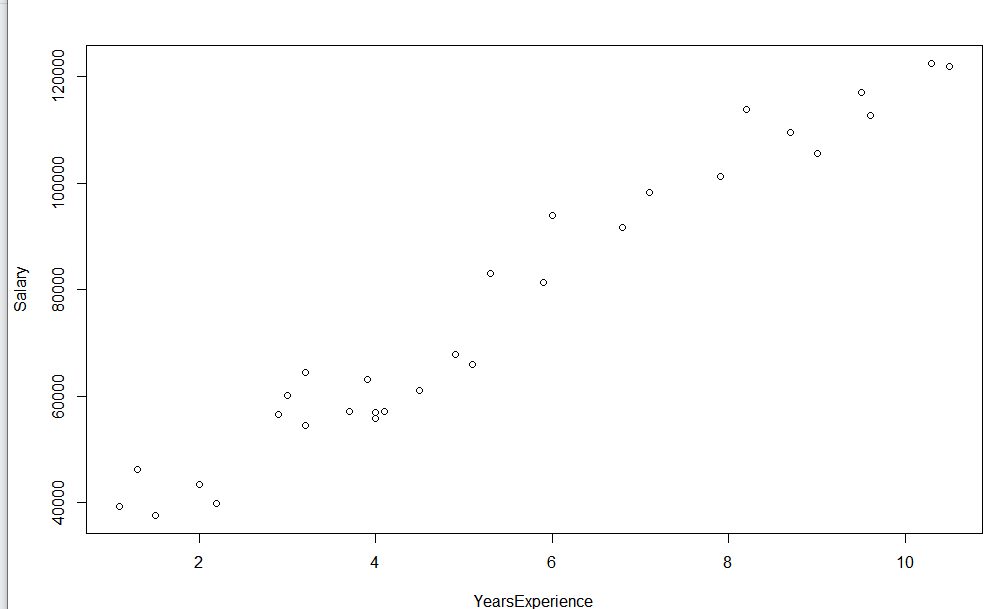
**Output 3 taking log of input**

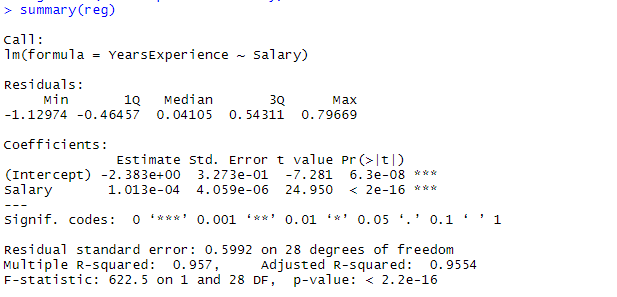
****

Question 4) Salary\_hike -> Build a prediction model for Salary\_hike



**Scatter plot:**

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**Output:** ****