***Q)what factors explain the difference in price between an economy ticket and a premium-economy airline ticket?***

***Ans: The price of an economy and premium depends on many factors such as the number of seats of each category in the plane.The category having less number fo seats will obviously be more costly so as to compensate the less number of seats with its price.Moreover A premium seat occupies a greater space as compared to a economy seat owing to its greater pitch and width as compared to the economy ones,so one needs to spends more bucks in order to occupy more space in the plane.***

***From the regression analysis it was clear that the price of economy is inversely correlated with the number of premium seats and the pitch difference .The error in the y intercept is pretty large indicating that the curve is underfitted.***

***Here the null hypothesis can be regarded as the price of economy seats are greater than the premium ones.***