A016 30-10-2020 Vorun Khadayate C.S MLR Q1. a. 9=-22.9898+1.1344x,+24.9724x,-0.4033x3 b x = 32 ; x = 3; x = 100 g=-22.9898 3+1-1344 [32]+24.9724 [3]-0.4033 [100] = 4247.8982 C. Jes, sine from A NOVA table: P-Val < 0-0001. Hence the model is satisfactor statistically significant at 5% LOS d. Dince P-Value for Rundime is 0.1113 > 0.05 LOS, variable run time is significant. Hence, we remove variable e R2= 0.4739 =47.39% About 47.39% of voriation in US Cross Variable is explained by variations in andependent variables Budget, Stars & Run Jime. be The intercept gives the average value of tops demand for subscription when all the or independent variables take the value O simultaneously. There is no economic meaning in it, because subscription cont be given for free & number of mouries has to be strictly + ve.

63. Monthly trice Experted Dign: -ve, given the inverse relationship between frice 2 demand, Actual Dign: +ve

Interpretation: 4 monthly paice increased by Unit, demand for subscription will increase by 11121 units

No. Of Movies

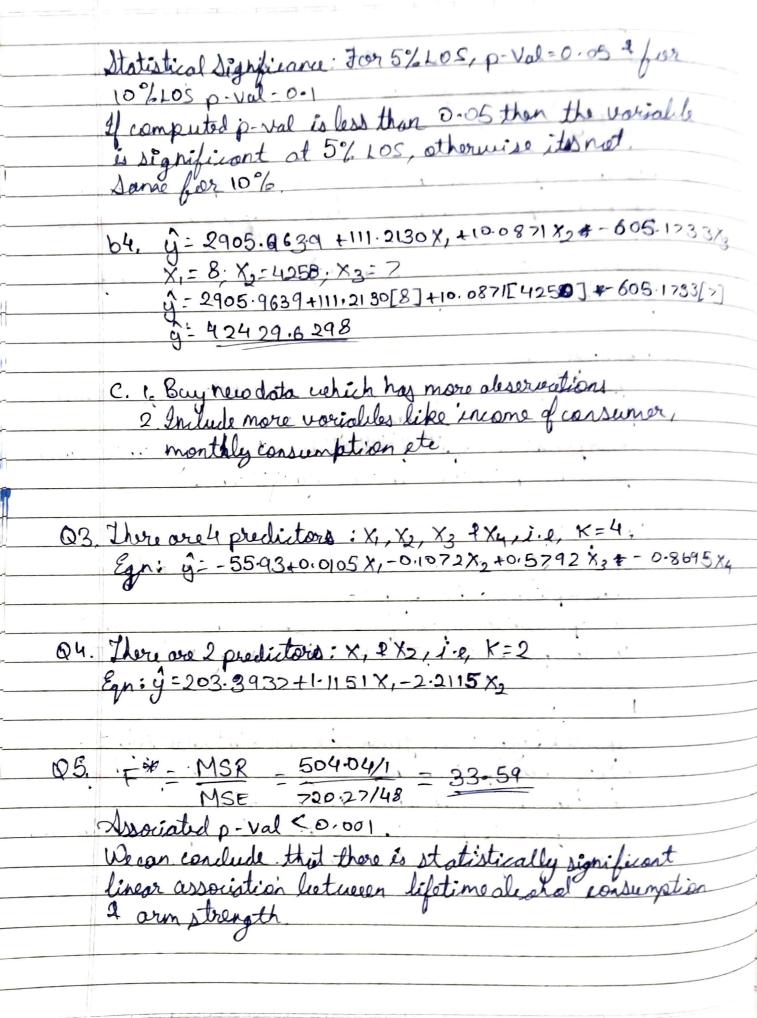
Expected Sign: +ve, more movies means more demand for subscription, Attend Sign: +ve

Interpretation: If no. of movies in increased by Vinit, demand for subscription will increase by 10.08 units

Price Of Rival

Expected Digh: +Ve, given the substitutional effect of a high rival price makes over good relatively chesper and herce more demanded Actual Sign: -Ve.

Interception: If price of rival increases by 1 the domand for subscription will decrease by 605-17 units



There is sufficient evidence to conclude that at least one slope parameter is not equal too.

28. There are 3 predictors available in the model.

28. There are 3 predictors available in the model.

There are 15 aleservations in the model.  $\hat{y} = 657.0630 + 5.7103 \times, -0.4169 \times, -3.4715 \times_3$ Since the F-value is small the model is a very good predictor.

Since, the value p-value of X, is quite loss, it is significant predictor variable.

The ownall model is very effective.

Regression model is significant.

For independent variables:

For X, p=0.805, p<0.05, X, is a significant variable.

For X2, p=0.805, p>0.05, X, is not a significant variable.

For X3, p=0.230, p>0.05, X3 is not a significant variable.

Since, slopes of X, ex2 are very small, so the coefficient estimate in very precise.

Egn: ŷ=

	De con conclude that there is statistically signification.
	Vinear association.
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