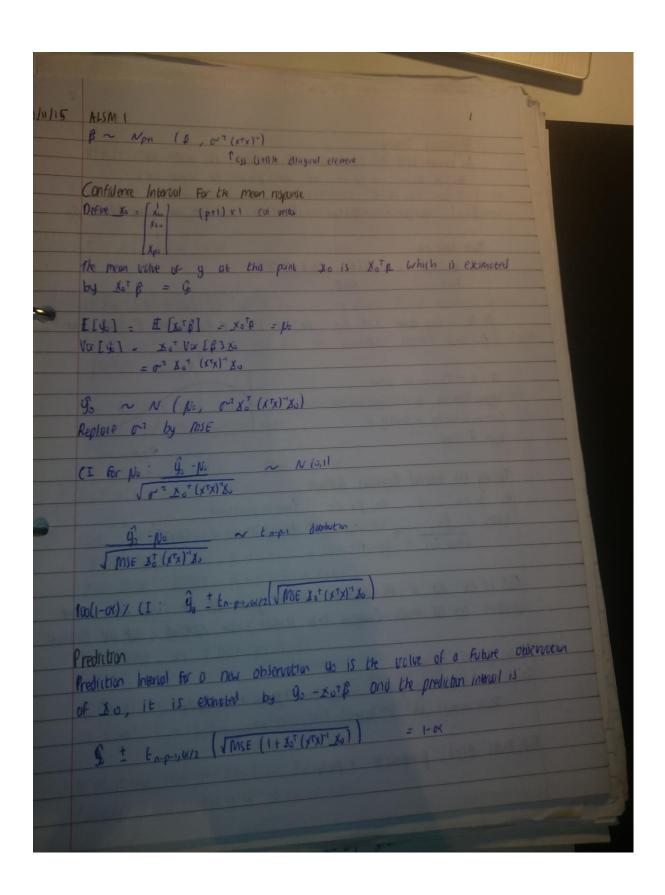
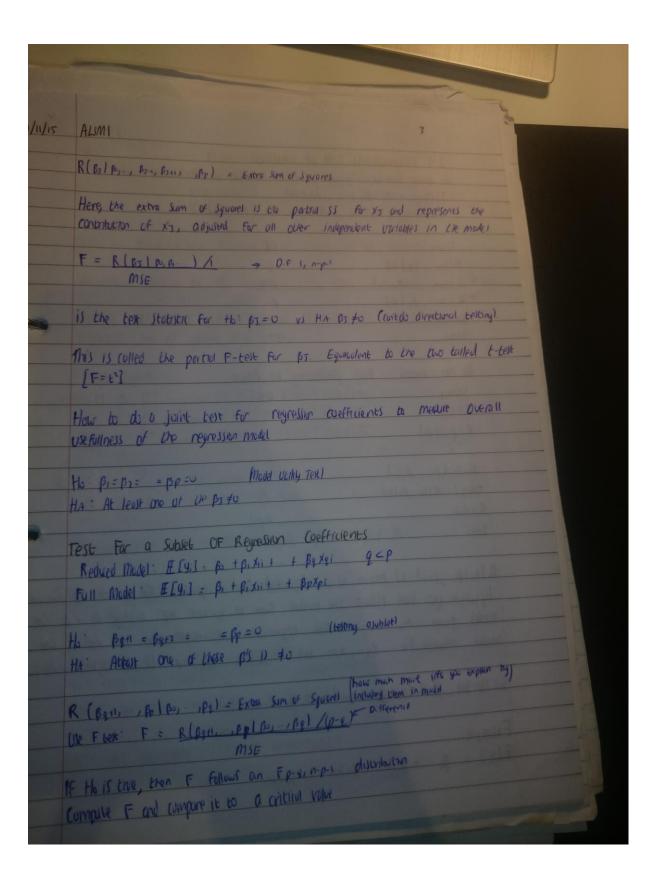


2 23/11/5
4 - ρ + ργι + ρ ₂ γ ₂₁ + Εί
Roting Intropt Sign May Fee May
B - [B] [6104]
€ = -2.73
[6,] [-304]
- Mian rating decreasing by 2.2 for every extra gram of sugar per 1009, neeping
- LANGE TIMES.
+ Similarly, the mean roting decreases by ~3 for every cutro gram of fact,
heeping layor fixed
ANOUR TOBLE n=77
Source DF SS ms
PO 000 4 1 86547 86547
021 211 6705
Rejudus 74 56715 76:6
MSE -766
Mr. [B] - Mr. Mai Lana
-0.31 0.021 -0.095 -0.31 0.021 -0.006
- 0.632 -0.066 1.074
S.E. [63] = 330
St. Cp. 3 = 0.055
SE. [B]: 1070

3/11/15 ALSM 1
ANOVA Toble
Source OF SS MS
Part P A 1x1 y - my 2 55 (Ray) /P
Total (conta) [3 -xp] (9-xp) [3 E/mp-1]
y y ny
SLR. SSE = = (4: -\$3 -\$1.4) → n-2 dz
there we how p predictors (independent variobles). We extende p+1 parameters
So be of associated with soe is n-(pm)
$y^{\dagger}y_{n}\bar{y}^{2} = sy_{1}^{2} - n\left(\frac{sy_{1}}{n^{2}}\right) = sy_{1}^{2} - \frac{(sy_{1})^{2}}{n^{2}} = s(y_{1} - y_{1})^{2} df = n-1$
THE RESERVE OF THE PARTY OF THE
R2 = \$5(samus) 0 < R2 < 1 The Square of the multiple correction between y and
the predictor (x, xo)
- Gives proportion of various variotion in 4 explained by the predictors
E = 9-9 vector of residuals
- 9 - H9 = Imm 4-H9
- (I-H 14
The second secon
CON [B, B] = -0.315
Cox [B, B2] = -0.066
Ho: B-B=0 v H; B=B =0 need extincto for S.E. for [B-A]
[[[[R - R] = Var [R] + Var [R]] - Z(W L P/P)]
Used in one-way dellistication models.
2.8 INFERENCE FOR MULTIPLE REGRESSION along to move an assumption along
In order to move interessed we again have to move an assumption alore.
In order to move interessed we again the distribution of y we usually assume narrowally
CLE CHAIRMAN

	30/11/1
ANDE: 9 has a multilatale normal distributor with parameters of (mean veltor) and E (Capitare metrix)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Density function of y $f(y) = \frac{1}{(2\pi)^{n_1}} \exp \left[-\frac{1}{2} (y - \mu)^T \sum_{i=1}^{n_2} (y - \mu)^T \right]$ matrix dividates	
μ = κρ fly) = vor lov' [= exp[- 1 (4-κρ) (v')] (4-κρ)] 8 = or I	
When $n=1$, $y: \sim N(\mu_1 e^{-\gamma})$:	
$\frac{f(y)}{\sqrt{2\pi}\sigma} = \exp\left[\frac{1}{2\sigma^2} \frac{(y + y)^2}{2\sigma^2}\right]$	
CONFIDENCE INTERVALS Confidence Intervals on the regression confficients: \$ 15 0 linear estimator here	1
$\hat{\beta}_{2} \sim N(\beta_{1}, (x_{1}x_{1})^{-1})$	1
Where Cis is the j+list diagonal entry of [xtx 1th for j = 0,1, , P	
Conficiency pi-pi ~ topi	1
The degrees of freedom of the t dist is that associated with the MSE using a Similar argument to Sixtum 1-2	
P[Bs -tops, d/2 JANEGS = Bs < Bs + tops, dels JMSE Gs] = 1-CK	1
This is a pooli-only confidence interval for Bi	





	To the state of th
	30
1	
2.9 SEQUENT	TIAL SUM OF SQUARES
The extra Sum of	Square parters sserey) in the ANNA Toble By, By, Be Bo)
= 8 (pu + ps	(a) + R(891, , 80 B, ,84)
The state of the s	MARINE SECTION OF STREET
Source	OF.
ADD = R(B1, , B2 B)	9. p-9.
R (By , Bp Bo)	P
Residual	'n-p-1.
Total	n-1
We can extend t	this Metiliague of Gillage
Source	this partitioning as fullass
R (pilps)	Marian County 1 Alberta Barrier St. 1994
R (Balpapa)	I STATE OF THE PARTY OF THE PAR
- do to	
R(Pe I po Bpu)	1
- SSRey = R(pp. ,pp pp)	P
Total	n-p-1
	NH
R(B) (B) (B) is know	un as the Sequential sum of squares for X5 > The annuality
by whath you will redu	wie the residual sum of squares by adding to the
model aliven x	adding to the
model adjusted for XI	on the represent the contraction of x7 in the
	TV VI ATH. VO I F OIL I
We can see \$ R (B) Po.	(BT-1) = R (B), PP (P)
-	M. J. P. P. D.
Example:	
E[4] : Be + Bixii +	t la Yay I die
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

			-
			9
30/1/15 ALSM 1		5	
Var	Partial ss	Sequental SS	
X,	R(p. 1 p. p., D.)	RIAIA	
X1	R(\$1 [\$, 6, \$1)	R(P21909)	
X ₁	R(B310, B4, B2) ← cqual	→ R (ps pe, ps, Bz)	
- Partial SS	- Find the info contained in XI w	hich is not contoned in Xe	fur
- Semental	SS - Info in X5 not cuntoined in X1	, , X ₅ -1	
RIGIE	+ R(p. (p. p. a) + R(p) (p. p. p.) = R	(pubupalpa) = SI(Rey)	
In general	1, Sum of Portial 55 \$ SS(Reg)		
Example:	(ereals	1.101 200	
4	- a+ 1 (C 18) = 61084	I 1995 V 5313	
	6. fr = tayour selfil = -3060	- 1993 1 1074	
2 Ha: 6=	B1=0 V HA Either A 4 P2 # C		
	93252/2 = 60.864 df = 2,94		
		. 11	
-	ital value: 3-12 -> test is highly	significant, reject the	
57. (10	KUI YUNC : 3 12		
	(associate in the model)		
3. Ho: 61=	given pr is in the model)		
HA : BI #	0		
Portial	5 > R (B1 B1 B2)		
t = .	2-02-2139.4362		
The same of the sa	10.000	1.11	
31	1 5/ = + 1.993 hunu	Significant, reject to.	
Critical	16) 000000 1018 51 > ± 1.993 highly	4	
2:10	HE GENERAL LINEAR HYP	VIII VIII	
N . (= = Ha: LB + C		
Ho 24	- 5 1/4		
CONTRACTOR OF STREET	Children of the Control of the Contr	A STATE OF THE PARTY OF THE PAR	

