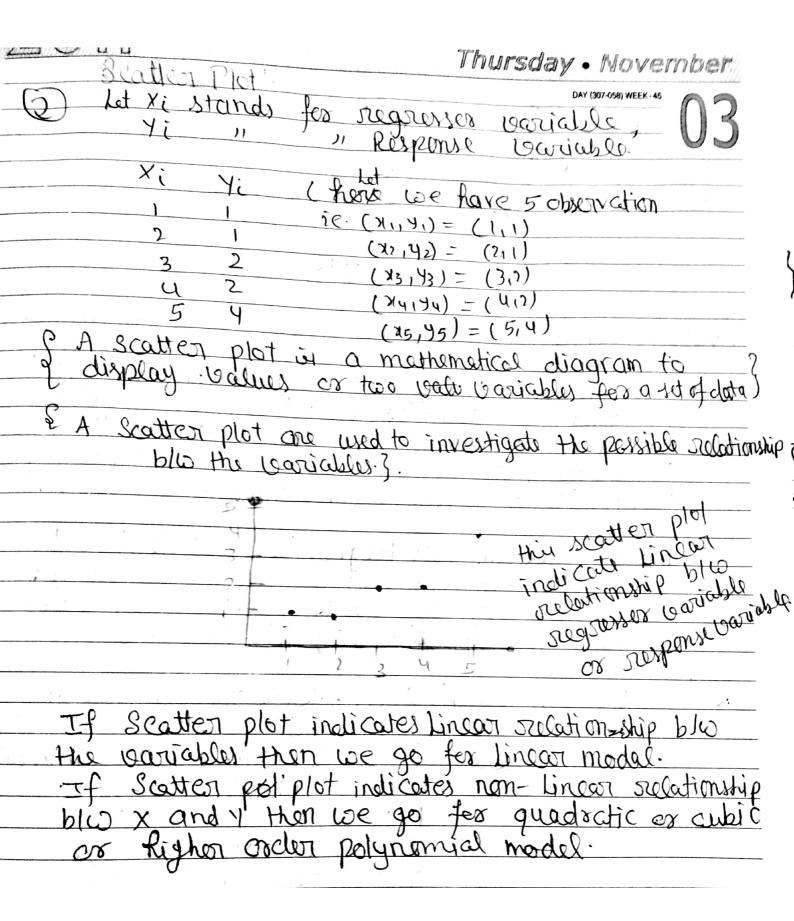
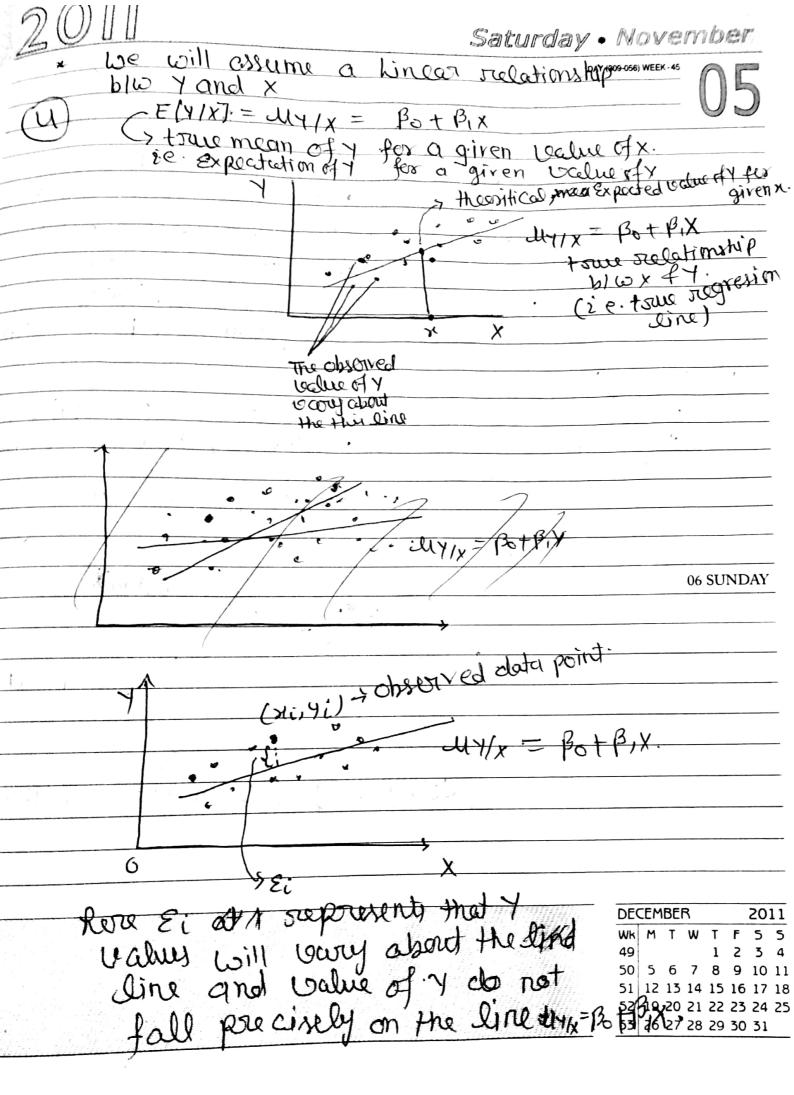
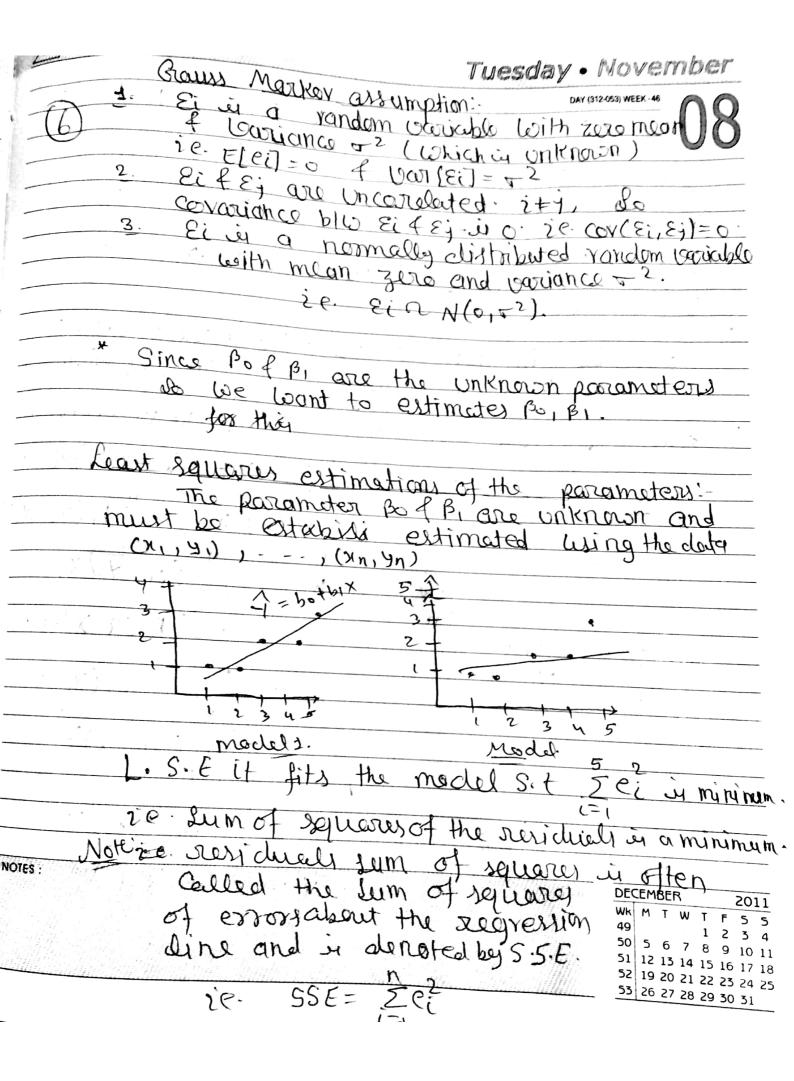
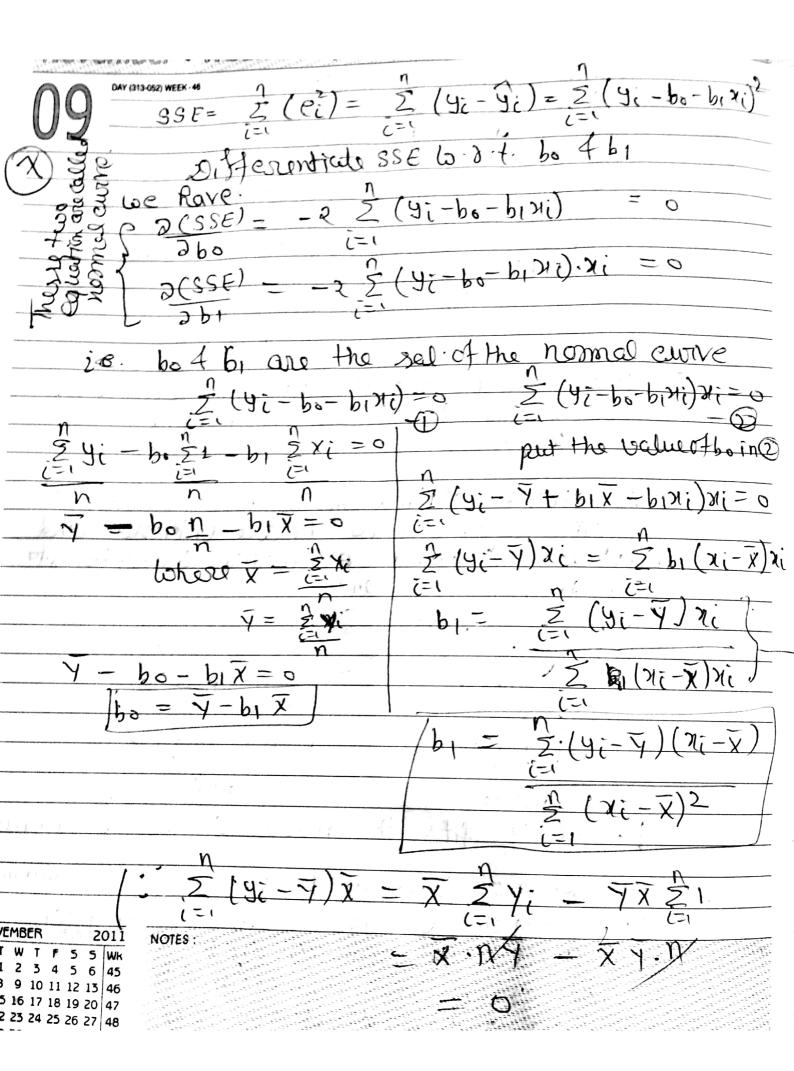
November · Wednesday hoptes-11
Regrussion Analysis is a statistical tool few investing the sociationship blue a dependent variable of one common independent variables.
the relationship blos a dependent barraces
One co more indépendent caques
JeNote: Regression Analysis is widely used for prediction and ferecosting.
prediction and ferecosting.
Applications- Economics,
Ex: Suppose you are marketing Analyst for Loys we gather the following data. (\$) Adventising sels Sals. (*) [1]
we gather the following data.
$\frac{(x)}{(x)} \frac{1}{(1)} \frac{(y)}{(1)}$
1 Reponse 2 Louviell.
- Jegstyses 3 2 Occupant
Now we want to relationship blus sales & adverting out.
Since we can do cide How much money we want to spond (ie. Sert of control variable) for adventising.
The said and the said and the said
a so the dependent least the allowing of account
ment. le sous amount is dependent variable and adventising cost is independent variable.
and conventioning con insuperioris









2011 Thursday · November Estimating the Regression Collici entertainment (3) Const squares estimates to and by of the scapression cofficient to fire are computed from the formulas. $b_{i} = D (\frac{2}{5}xig) - (\frac{2}{5}xi)(\frac{2}{5}gi)$ Ju = Xi - = 311 (P-je) (NE-jK) = £ (xi-31)2 りに - らっきかい - ラートス il in S b1 = 1 rigi - ATX 2 nx2

Start Lec- 2: Parapreter estimation solution. Lym (0.76)(3)0.10 5 X 3 X 21 0.10 + 0.7X+ Costrelation cofficient: The measure ρ of linear association bits two variable $x \in Y$ is estimated by sample correlation cofficient xwhere $x = b_1 \frac{s_s}{s_{yy}} = \frac{s_{yy}}{s_{yy}}$ Sax = $\frac{s_{yy}}{s_{yy}} = \frac{s_{yy}}{s_{yy}}$ $\frac{s_{yy}}{s_{yy}} = \frac{s_{yy}}{s_{yy}}$

