Question 7
Assign Risklevel = Low -> y=0. Risklevel = High -> y=1.
Ricklevel = High -> y = 1
linear regression model
2 = 100 + 4, x, + 42. x2
where x1 is Age; x2 is Credit Score.
$\hat{y} = \sigma(z) = \frac{1}{1+e^{-z}}$
1+6-2
For Ta
2 = 0,5 - 0,02 × 35 + 0,01 +720
$\hat{y} = \mathcal{C}(z) = \frac{1}{1+e^{-z}} \approx 0.999$
=> The initial prediction of Tq is Ricklevel = "Ligh
Cost function
Les = - i.y. log(\hat{g})+(1-y), log(1-\hat{g})]
[0.lag(1). (1-0).lag(1-1)].
=-10 (og (0,999). + (1-0)(log (1-0,999))