Assignment 3

#if(!require("pacman")) install.packages("pacman")  
pacman::p\_load(tidyverse, reshape, gplots, RStata,haven)  
theme\_set(theme\_classic())  
options("RStata.StataPath")  
options("RStata.StataVersion" = 13)

insur<- read\_dta(file = "insur.dta")

head(insur)

## # A tibble: 6 x 2  
## insurance income  
## <dbl> <dbl>  
## 1 90 25  
## 2 165 40  
## 3 220 60  
## 4 145 30  
## 5 114 29  
## 6 175 41

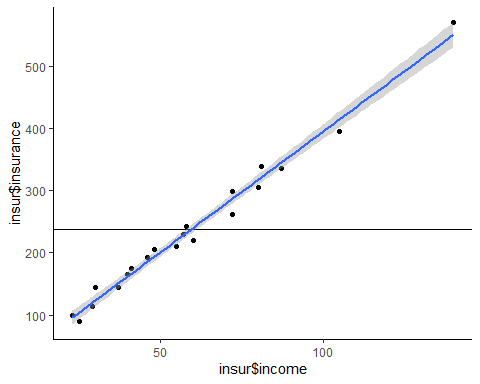
lm1<- lm(insur$insurance~ insur$income,data=insur)  
summary(lm1)

##   
## Call:  
## lm(formula = insur$insurance ~ insur$income, data = insur)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -24.228 -10.766 2.456 11.295 21.739   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 6.8550 7.3835 0.928 0.365   
## insur$income 3.8802 0.1121 34.606 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 14.36 on 18 degrees of freedom  
## Multiple R-squared: 0.9852, Adjusted R-squared: 0.9844   
## F-statistic: 1198 on 1 and 18 DF, p-value: < 2.2e-16

mean(insur$insurance)

## [1] 236.95

ggplot(insur,aes(x=insur$income,y=insur$insurance))+  
 geom\_point()+  
 geom\_hline(yintercept=236.95)+  
 geom\_smooth(method="lm")



A close up of a piece of paper

Description automatically generated

A close up of a piece of paper

Description automatically generated

A close up of a curtain

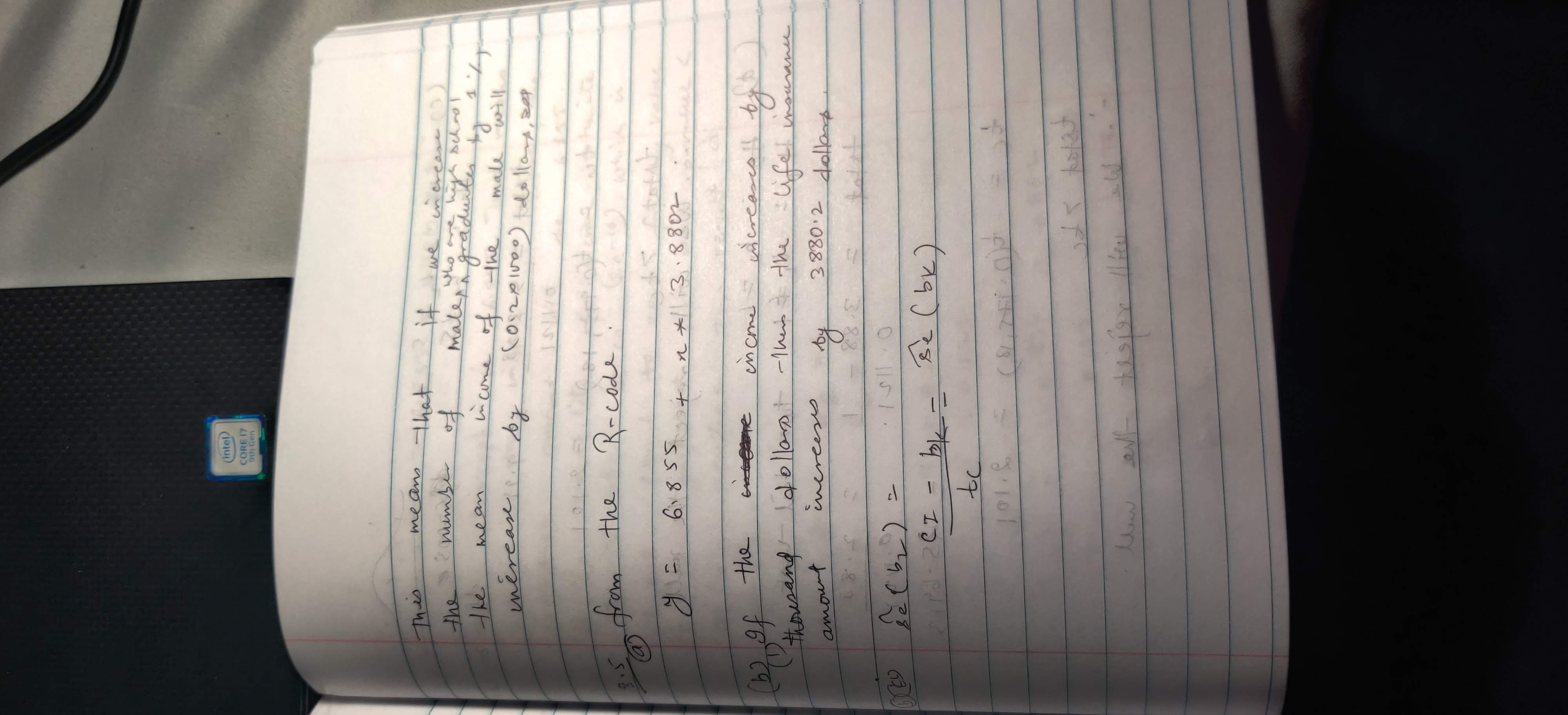
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A close up of a piece of paper

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A close up of a piece of paper

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A close up of a piece of paper

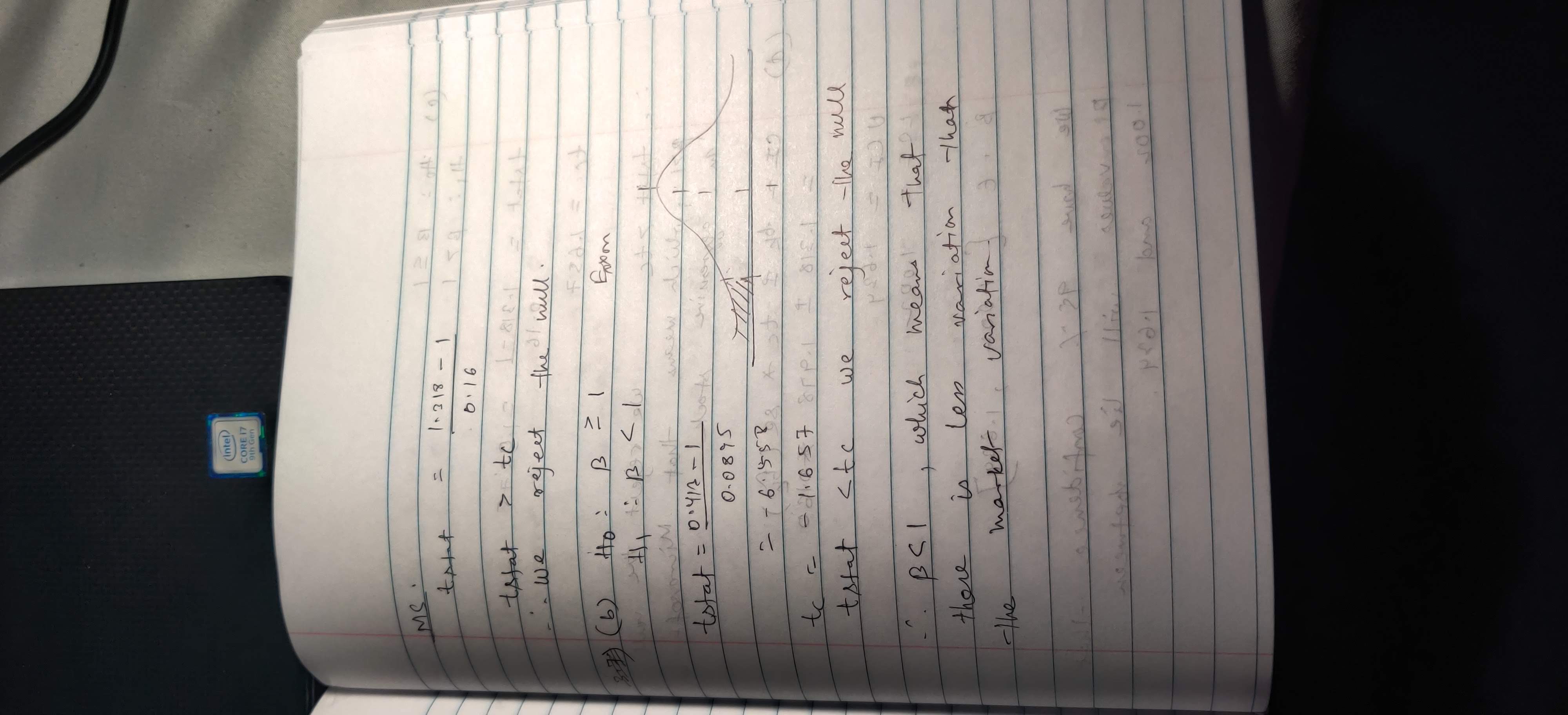
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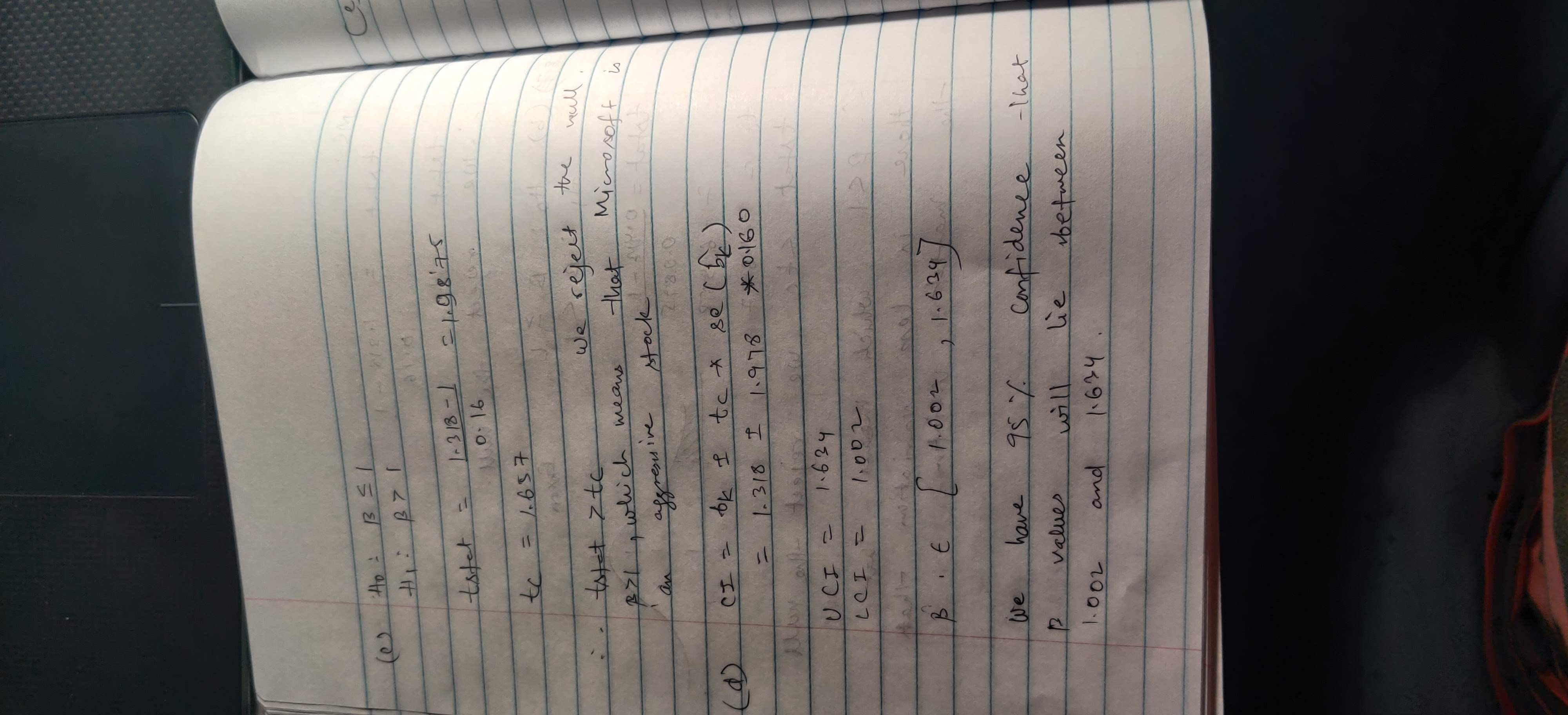
A close up of a curtain

Description automatically generated

A close up of a curtain

Description automatically generated





A close up of a piece of paper

Description automatically generated

A close up of a white wall

Description automatically generated

A close up of a piece of paper

Description automatically generated

A close up of a piece of paper

Description automatically generated

A close up of a piece of paper

Description automatically generated

