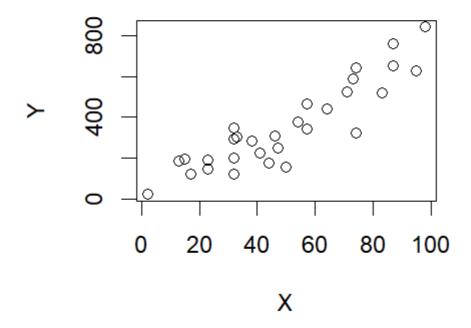
Compte rendu TP R GL3

Salma Yahyaoui

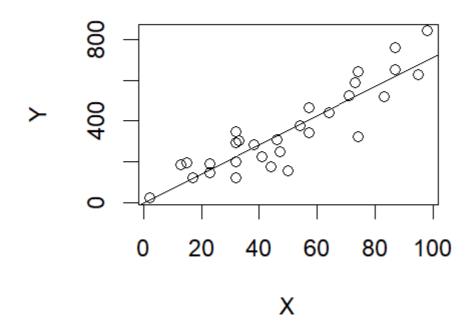
Question1+2:

```
> x=1:100
> X=sample(x,30,replace=T)
> Y=7*X+3+rnorm(30,0,100)
> plot(X,Y)
```



Question3+4:

> regXY=lm(Y~X)
> abline(regXY\$coefficients)



Question5:

> anovXY=anova(regXY)

If we want to see the output:

> anova(regXY)

Analysis of Variance Table

Response: Y

Df Sum Sq Mean Sq F value Pr(>F)
X 1 1011691 1011691 118.83 1.386e-11 ***
Residuals 28 238382 8514

Question6:

> df<-data.frame(X,Y)

Question7:

> confint(regXY, 0.05)

Question8:

- 1-Calculate the mean
- 2-Calculate the standard error of the mean
- 3-Find the t-score that corresponds to the confidence level
- 4-Calculate the margin of error and construct the confidence interval

Question9: