Student_Score_Prediction.R

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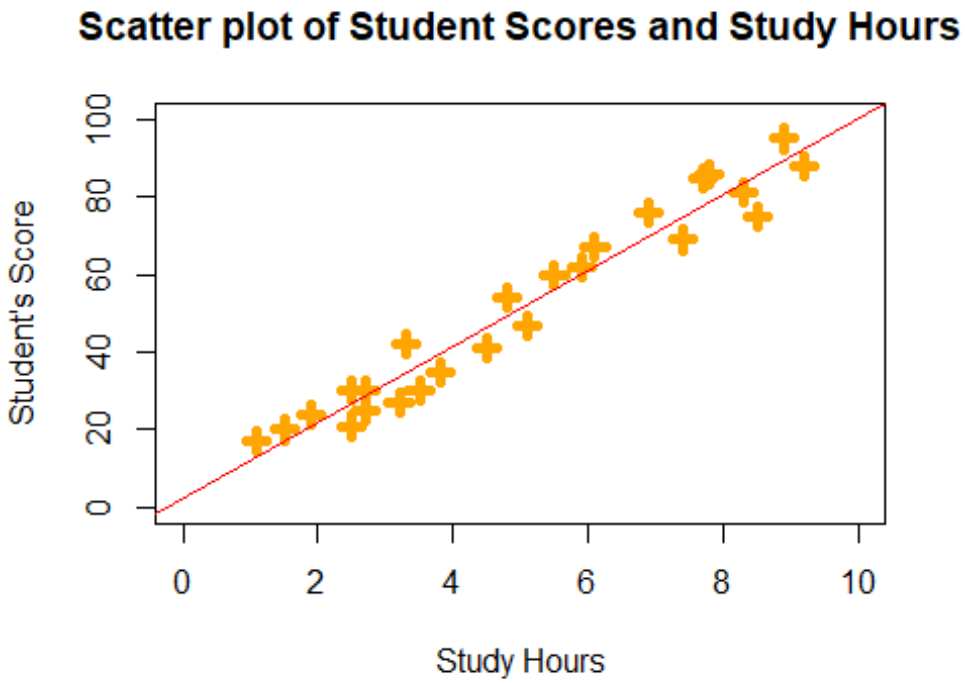
2021-01-11

```
student_scores = read.csv(file = "student_scores - student_scores.csv")

str(student_scores)

## 'data.frame':    25 obs. of  2 variables:
##  $ Hours : num  2.5 5.1 3.2 8.5 3.5 1.5 9.2 5.5 8.3 2.7 ...
##  $ Scores: int  21 47 27 75 30 20 88 60 81 25 ...

summary(student_scores)

##      Hours           Scores     
##  Min.   :1.100   Min.   :17.00  
##  1st Qu.:2.700   1st Qu.:30.00  
##  Median :4.800   Median :47.00  
##  Mean   :5.012   Mean   :51.48  
##  3rd Qu.:7.400   3rd Qu.:75.00  
##  Max.   :9.200   Max.   :95.00

plot (student_scores$Hours, student_scores$Scores,type="p",
     main = "Scatter plot of Student Scores and Study Hours",
     col= "orange", lwd=5, pch=3,
     xlim= c(0,10), ylim=c(0,100),
     xlab="Study Hours", ylab= "Student's Score")

#regression line: regression
regression = lm (Scores ~ Hours, data = student_scores)
print(regression)

##
## Call:
## lm(formula = Scores ~ Hours, data = student_scores)
##
## Coefficients:
## (Intercept)        Hours
##       2.484        9.776

abline(lm (Scores ~ Hours, data = student_scores), col = "red")
```




```
hours = data.frame("Hours" = 9.25)
score_pred=predict(regression,hours) #score prediction
sprintf("The Score predicted for a student who studied for 9.25 hours is : %f
",score_pred)

## [1] "The Score predicted for a student who studied for 9.25 hours is :
92.909855 "
```