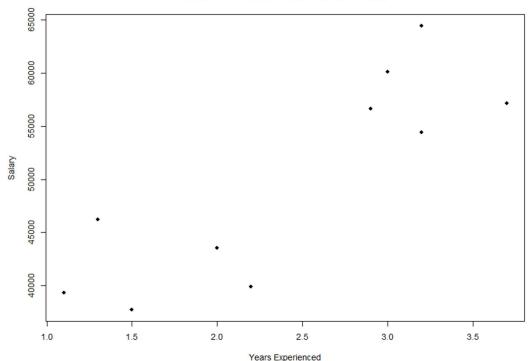
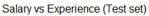
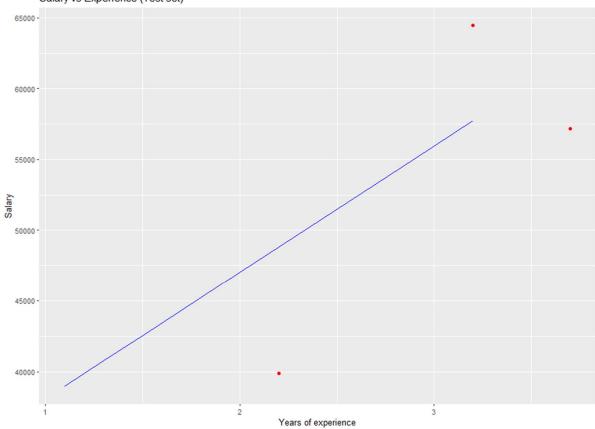
```
# Loading package
  library(caTools)
# Create the data frame
> data <- data.frame(
    Years_Exp = c(1.1, 1.3, 1.5, 2.0, 2.2, 2.9, 3.0, 3.2, 3.2, 3.7),
Salary = c(39343.00, 46205.00, 37731.00, 43525.00,
39891.00, 56642.00, 60150.00, 54445.00, 64445.00, 57189.00)
> # Create the scatter plot
> trainingset = subset(data, split == TRUE)
> testset = subset(data, split == FALSE)
> # Fitting Simple Linear Regression to the Training set
> lm.r= lm(formula = Salary ~ Years_Exp,
            data = trainingset)
> coef(lm.r)
               Years_Exp
7844.474
(Intercept)
  31117.750
> # Predicting the Test set results
> ypred = predict(lm.r, newdata = testset)
> library(ggplot2)
> # Visualising the Training set results
> ggplot() +
    ggtitle('Salary vs Experience (Training set)') +
    xlab('Years of experience') +
ylab('Salary')
  # Visualising the Test set results
> ggplot() +
    geom_point(aes(x = testset$Years_Exp, y = testset$Salary),
                colour = 'red') +
    geom_line(aes(x = trainingset$Years_Exp,
    y = predict(lm.r, newdata = trainingset)),
colour = 'blue') +
ggtitle('Salary vs Experience (Test set)') +
    xlab('Years of experience') +
ylab('Salary')
```

Scatter Plot of Years Experienced vs Salary







Salary vs Experience (Training set)

