```
reg no: 20BCE2110
df <- faithful
df_train <- data.frame("eruptions"=df$eruptions[0:260],"waiting"=df$waiting[0:260])
df_test <- data.frame("eruptions"=df$eruptions[261:272], "waiting"=df$waiting[261:272])
chart A
```{r}
reg <- lm(df_train)
q2 = data.frame("waiting"=df_test$waiting, "prediction"= predict(reg, df_test))
plot(q2, pch=20, main="Malhar Dharmadhikari 20BCE2110")
chart B
barplot(rbind(df_test$eruptions, q2$prediction), beside = TRUE
 ,xlab = "index", ylab = "eruption/prediction", col=c("darkblue", "red"), ylim=c(0,7),
main="Malhar Dharmadhikari 20BCE2110")
legend("topright",
 legend = c("Test Case", "Prediction"),
 fill = c("darkblue", "red"))
chart C
text arr = c("predictios are higher than actual when passed value is low",
 "predictios are lower than actual when passed value is high",
 "eruption duration is directly proportional to waiting time")
text_arr
chart D
library("tm")
library("SnowballC")
library("RColorBrewer")
library("wordcloud")
 #library(wordcloud2)
text = "predictios are higher than actual when passed value is low predictios are lower than actual
when passed value is high eruption duration is directly proportional to waiting time"
#text = read.delim(text_arr)
docs = Corpus(VectorSource(text))
toSpace = content_transformer(function (x, pattern)gsub(pattern, " ", x))
docs1 = tm_map(docs, toSpace, "/")
docs1 = tm map(docs, toSpace, "@")
docs1 = tm_map(docs, toSpace, "#")
docs1 = tm_map(docs1, content_transformer(tolower))
docs1 = tm map(docs1, removeNumbers)
docs1 = tm_map(docs1, stripWhitespace)
```

name: Malhar Dharmadhikari

