DWAM Mini Project

Project By :-
Harideep(16PA1A05c8)
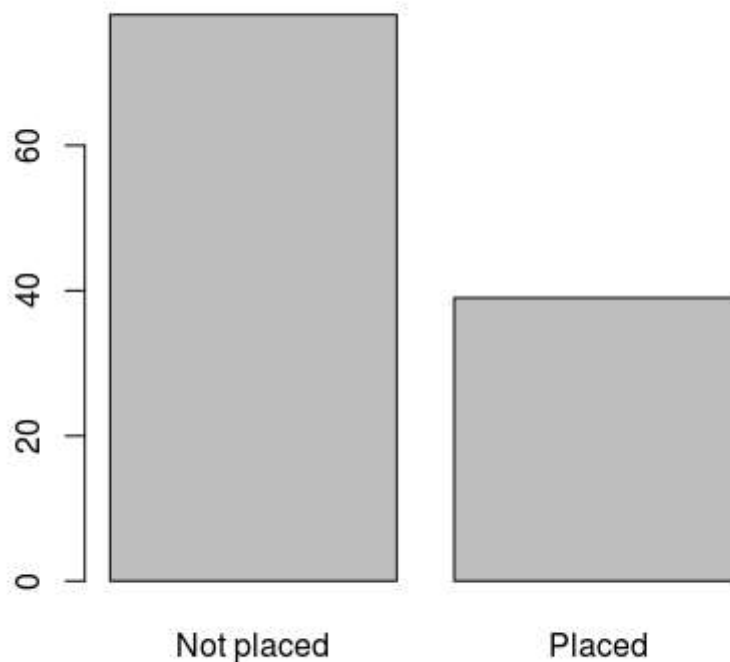**Vishnu sai(16P1A05H8)**
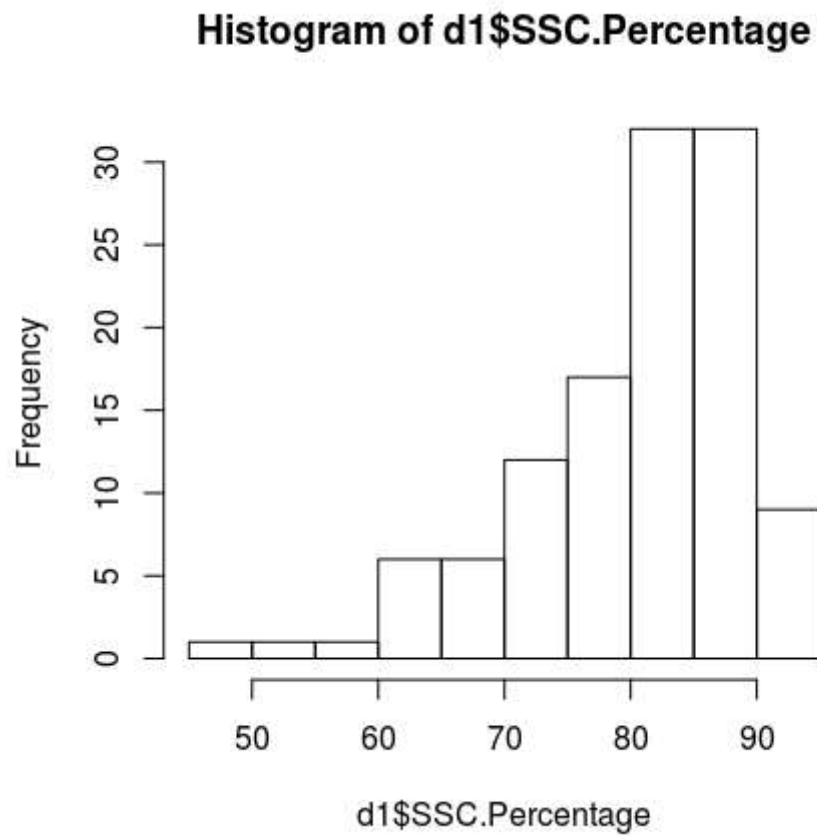**Dinesh(16PA1A05g3)**
Anil(16PA1A05f7)
Sardar(16pa1a05c8)

CODE:-

```
students_placement_data <-
read.csv("~/Downloads/students_placement_data.csv")
View(students_placement_data)
d1<-students_placement_data
d1[] <- lapply(d1, function(x) {
    x[is.na(x)] <- mean(x, na.rm = TRUE)
    x
 })
print(d1)

p1<- table(d1$placement.status)
barplot(p1)
```
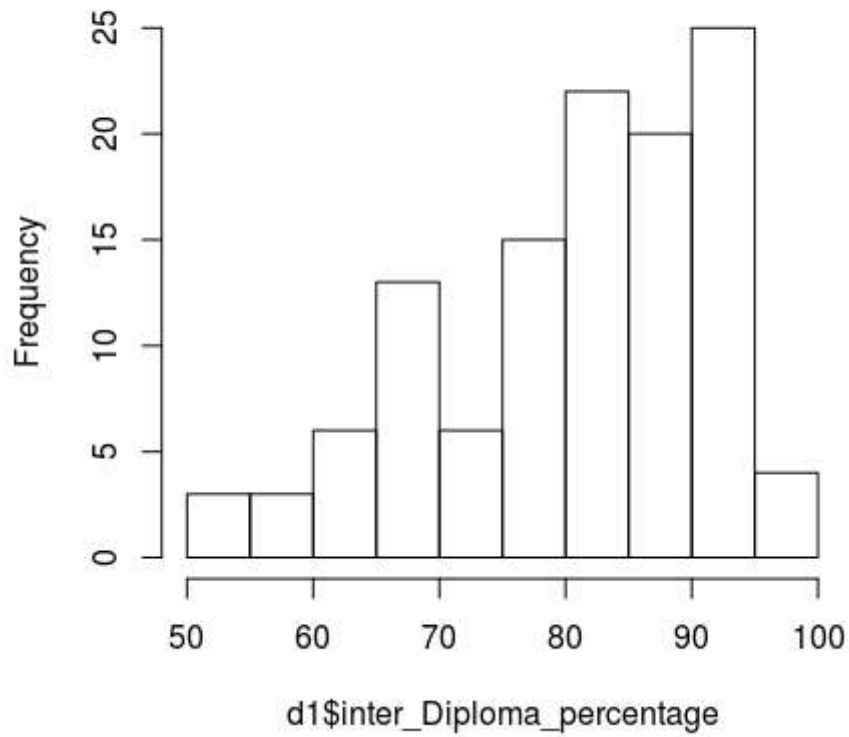
```
hist(d1$SSC.Percentage)
```


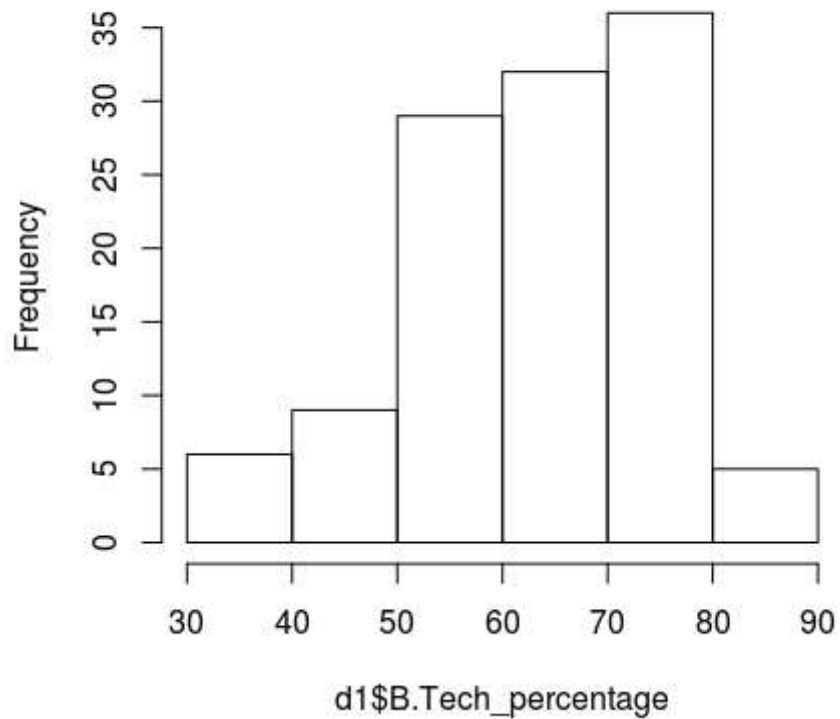Histogram of d1$SSC.Percentage

```
hist(d1$inter_Diploma_percentage)
```

Histogram of d1$inter_Diploma_percentage


```
hist(d1$B.Tech_percentage)
```

Histogram of d1$B.Tech_percentage

```
library(rpart)
a<-sample(1:117,size=round(.60*117),replace=TRUE)
a
train <- d1[a,]
test<-d1[-a,]
train
test
l<-
rpart(placement.status~SSC.Percentage+inter_Diploma_percentage+B
.Tech_percentage,data=d1,method='class')
l

e <- predict(l,test,type="class")
e
ans1 <- table(test[,9],e)
ans1
e
```

	Not placed	Placed
Not placed	37	4
Placed	7	17

e=0.169

```
library(e1071)
l <- naiveBayes(placement.status~
SSC.Percentage+inter_Diploma_percentage+B.Tech_percentage+Backlo
gs+registered_for_.Placement_Training,data=train,method="class")
l
k <- predict(l,test,type="class")
k
ans2 <- table(test[,9],k)
ans2
k
```

	Not placed	Placed
Not placed	25	16
Placed	1	23

K=0.261

"With help of above code we can prove that Naive Bayes is notefficient than Decision Tree Induction"