## **HEALTH CARE COST ANALYSIS**

## **CODES:-**

```
rm(list=ls())
hops = read.csv("HospitalCosts.csv")
head(hops)
colSums(is.na(hops))
hops = na.omit(hops)
summary(hops)
str(hops)
hops$RACE = as.factor(hops$RACE)
hops$FEMALE = as.factor(hops$FEMALE)
hist(hops$AGE)
summary(as.factor(hops$AGE))
library(dplyr)
df = summarise(group_by(hops,AGE), TOTCHG = sum(TOTCHG))
df
arrange(df, desc(TOTCHG))
arrange(df, desc(TOTCHG))[1,]
df1 <- hops %>% group_by(AGE) %>% summarise(TOTCHG = sum(TOTCHG)) %>%
arrange(desc(TOTCHG))
df1[1,]
hist (hops$APRDRG)
summary(hops$APRDRG)
summary(as.factor(hops$APRDRG))
df = summarise(group_by(hops,APRDRG),TOTCHG = sum(TOTCHG))
df
arrange(df,desc(TOTCHG))
arrange(df, desc(TOTCHG))[1]
df1 = hops %>% group_by(APRDRG) %>% summarise(TOTCHG = sum(TOTCHG)) %>%
arrange(desc(TOTCHG))
```

```
df1[1,]
str(hops$RACE)
str(hops$TOTCHG)
model = aov(TOTCHG ~ RACE, data = hops)
summary(model)
alpha = 0.05
pvalue = summary(av)[[1]][,"Pr(>F"][1]
pvalue = 0.943
pvalue < alpha
av = aov(TOTCHG ~ FEMALE + AGE, data = hops)
alpha = 0.05
pvalue = summary(av)[[1]][,"Pr(>F"][1]
pvalue = 0.943
pvalue < alpha
Model = Im(LOS ~ AGE+ FEMALE + AGE + RACE, data = hops)
summary(Model)
summary(model)$coefficients[,4] < 0.05
model = Im(TOTCHG ~ ., hops)
summary(model)
summary(model)$coefficients[,4] < 0.05
```