**INPUT:**

#make this example reproducibe

set.seed(1)

#create data frame

df <- data.frame(grade = rep(c('Freshmen','Sophomore','Junior','Senior'),each=100),gpa=rnorm(400,mean=85,sd=3))

#view first six rows of data frame

head(df)

library(dplyr)

#obtain stratified sample

strat\_sample <- df%>%group\_by(grade)%>%sample\_n(size=10)

#find frequency of students from each grade

table(strat\_sample$grade)

**OUTPUT :**

> head(df)

grade gpa

1 Freshmen 83.12064

2 Freshmen 85.55093

3 Freshmen 82.49311

4 Freshmen 89.78584

5 Freshmen 85.98852

6 Freshmen 82.53859

> table(strat\_sample$grade)

Freshmen Junior Senior Sophomore

10 10 10 10