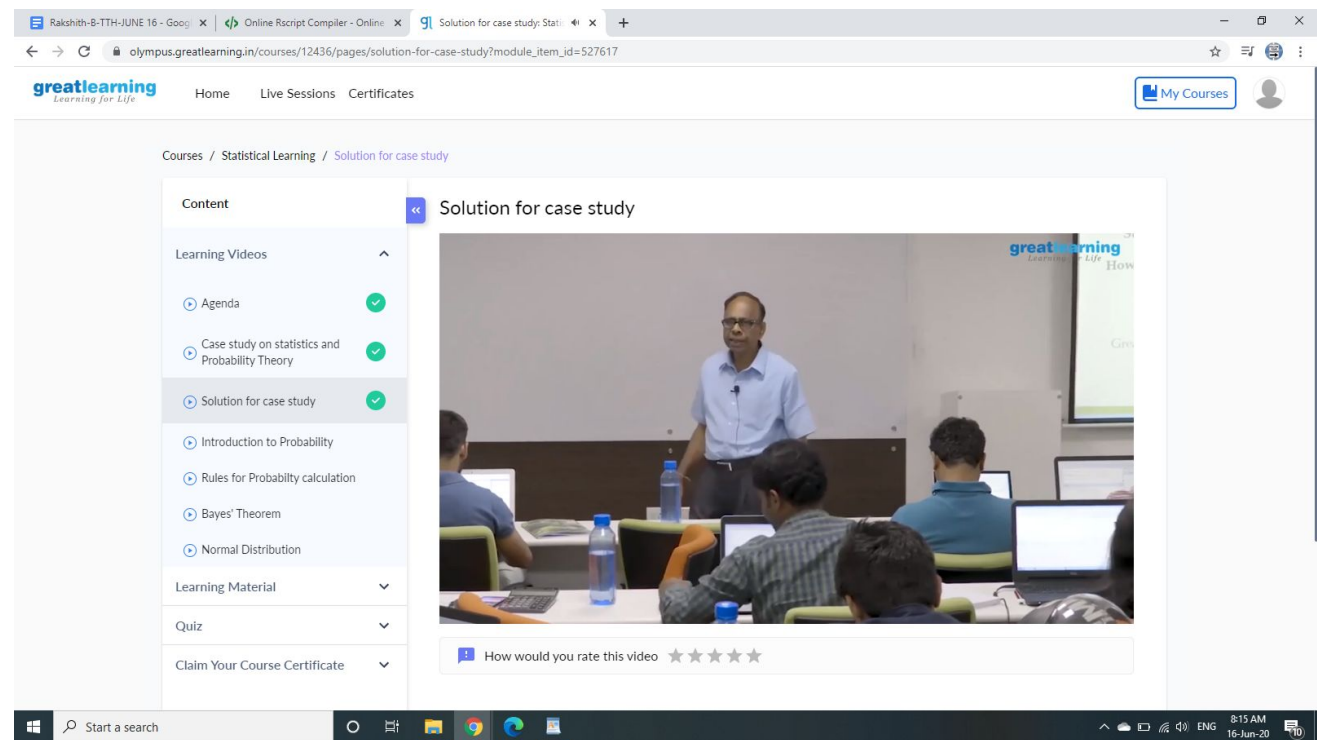


REPORT JUNE 16

Date:	16 JUNE 2020	Name:	Rakshith B
Course:	GreatLearning	USN:	4AL16EC409
Topic:	Statistical Learning	Semester & Section:	6th SEM B
Github Repository:	Rakshith-B		

FORENOON SESSION DETAILS

Image of session



Report –

Agenda;

- **Case study for Statistics**
- **Probability and its Types**
- **Bayes Theorem**
- **Normal Distribution and Bell Curve**

```
setwd("F:/SMDM/Data")
```

```
mydata=read.csv("Health.csv",header=TRUE)
```

```
attach(mydata)

mydata

names(mydata)

Frequency=table(work)

mode=names(Frequency)[Frequency==max(Frequency)]

Mode

hst(work,col="Red")

library(lattice)

histogram(!work|factor(hospital))

mean(work)

sd(work)

Mean=x(mean(Work),mean(Pay),mean(Promotion))

data.frame(Mean,row.names=c("Work","Pay","Promotion"))

Sigma=c(sd(Work),sd(Pay),sd(Promotion))

CV=Sigma/Mean

data.frame(Mean,Sigma,CV,row.names=c("work","Pay",Promotion))

hist(Promotion)

boxplot(Work,horizontal=TRUE)

boxplot(Promotion,horizontal=TRUE)

boxplot(work~Hospital,horizontal=TRUE)

by(mydata,INDICES=Hospital,FUN=Summary)

boxplot(Work,Pay,Promotion,horizontal=TRUE)
```

