REPORT JUNE 16

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Course:	**GreatLearning**	**USN:**	4al17ec071
Topic:	**Statistical Learning**	**Semester & Section:**	6th sem b
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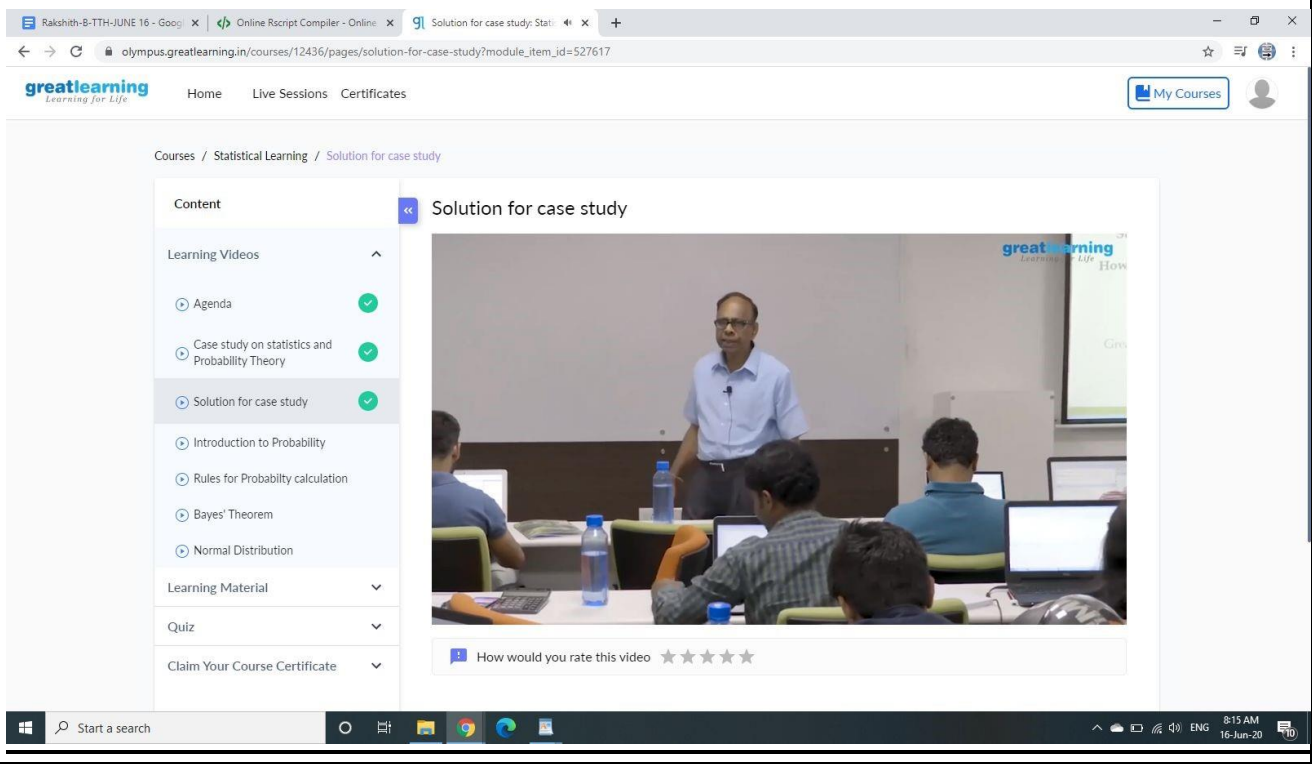
FORENOON SESSION DETAILS

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.scv("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)
```