

IT2120 - Probability and Statistics

Lab Sheet 08

IT24103165

1.

```
> setwd("C:\\Users\\AIP Manjula\\Desktop\\Lab8")
> data<-read.table("Exercise - LaptopsWeights.txt", header=TRUE)
> fix(data)
attach(data)

#1
popmn<-mean(data$Weight.kg.)
popsd<-sd(data$Weight.kg.)
```

2.

```
#2
samples<-c()
n<-c()
for (i in 1:25){
s<-sample(Weight.kg.,6,replace=TRUE)
samples<-cbind(samples,s)
n<-c(n,paste0('s',i))
}
colnames(samples)=n
s.means<-apply(samples,2,mean)
s.sds<-apply(samples,2,sd)
|
```

3.

```
#3
truemean<-mean(s.means)
truesd<-sd(s.sds)
popmn
truemean
popsd
truesd
```