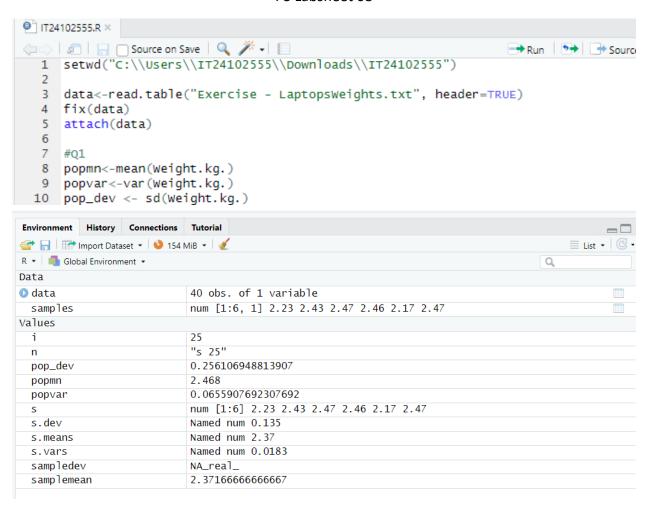
IT24102555

Weerathuga B.A

PS Labsheet 08



■ Data Editor – □ ×							
File Edit Help							
	Weight.kg.	var2	var3	var4	var5	var6]
1	2.46]
2	2.45						
3	2.47]
4	2.71						╛
5	2.46]
6	2.05]
7	2.6						╛
8	2.42]
9	2.43						╛
10	2.53]
11	2.57						╛
12	2.85						╛
13	2.7]
14	2.53]
15	2.28						╛
16	2.2]
17	2.57						
18	2.89]
19	2.51						1

```
11
12 #Q2
13 samples<-c()
14 n<-c()
15
16 - for(i in 25){
      s<-sample(Weight.kg.,6,replace=TRUE)</pre>
17
18
      samples<-cbind(samples,s)</pre>
      n<-c(n,paste('s',i))</pre>
19
20 - }
21 colnames(samples)=n
22
23 s.means<-apply(samples,2,mean)</pre>
24 s.vars<-apply(samples,2,var)
25 s.dev<-apply(samples,2,sd)</pre>
```

Impo	rt Dataset 🕶 🔌 154	MiB ▼ 🖋		
R ▼ 🔒 Global Environment ▼			Q	
Data				
🚺 data		40 obs. of 1 variable		
samples		num [1:6, 1] 2.06 2.57 2.46 2.65 2.28 2.73		
Values				
i		25		
n		"s 25"		
pop_dev		0.256106948813907		
popmn		2.468		
popvar		0.0655907692307692		
S		num [1:6] 2.06 2.57 2.46 2.65 2.28 2.73		
s.dev		Named num 0.25		
s.means		Named num 2.46		
s.vars		Named num 0.0627		
sampledev		NA_real_		
samplemean		2.3716666666667		

```
#Q3
28 samplemean<-mean(s.means)
29 sampledev<-sd(s.means)
30
31 popmn
32 samplemean
33
34 pop_dev
35 sampledev
```

Environment	History	Connections	Tutorial			
👉 🔒 l 📻	Import Data	aset • 🔱 154	MiB ▼ 🎸	≣ List ▼ (
R ▼ Glob	R 🔻 🦺 Global Environment 💌			Q		
Data						
O data			40 obs. of 1 variable			
samples			num [1:6, 1] 2.06 2.57 2.46 2.65 2.28 2.73			
Values						
i			25			
n			"s 25"			
pop_dev			0.256106948813907			
popmn			2.468			
popvar			0.0655907692307692			
S	S		num [1:6] 2.06 2.57 2.46 2.65 2.28 2.73			
s.dev			Named num 0.25			
s.means			Named num 2.46			
s.vars			Named num 0.0627			
samplede			NA_real_			
samplemean			2.45833333333333			

```
Console Terminal × Background Jobs ×
R 4,2,2 · C:/Users/IT24102555/Downloads/IT24102555/
> n<-c()
> for(i in 25){
    s<-sample(Weight.kg.,6,replace=TRUE)</pre>
    samples<-cbind(samples,s)
   n<-c(n,paste('s',i))
+ }
> colnames(samples)=n
> s.means<-apply(samples,2,mean)</pre>
> s.vars<-apply(samples,2,var)</pre>
> s.dev<-apply(samples,2,sd)</pre>
> #Q3
> samplemean<-mean(s.means)
> sampledev<-sd(s.means)
> popmn
[1] 2.468
> samplemean
[1] 2.405
> pop_dev
[1] 0.2561069
> sampledev
[1] NA
```