Sri Lanka Institute of Information Technology

Lab Submission
<Lab Sheet 07>

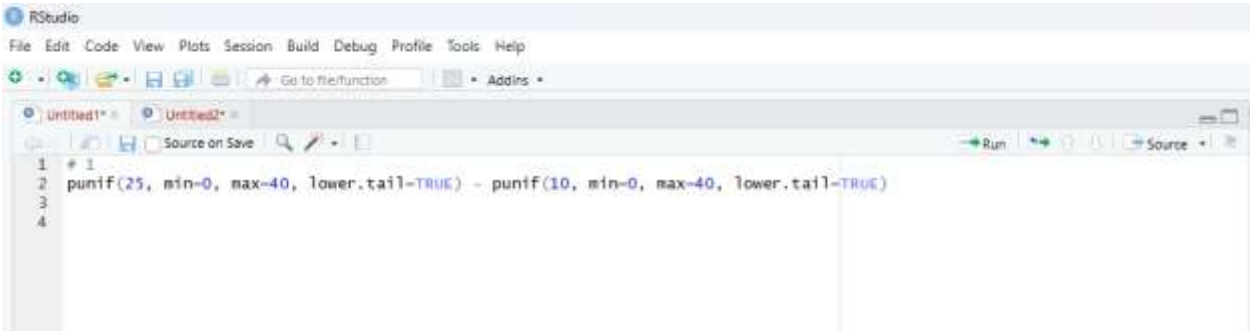
<IT24104049>

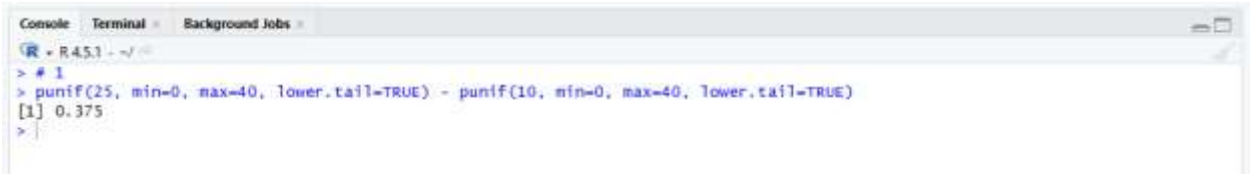
<Hewa V S S>

IT2120- Probability and Statistics

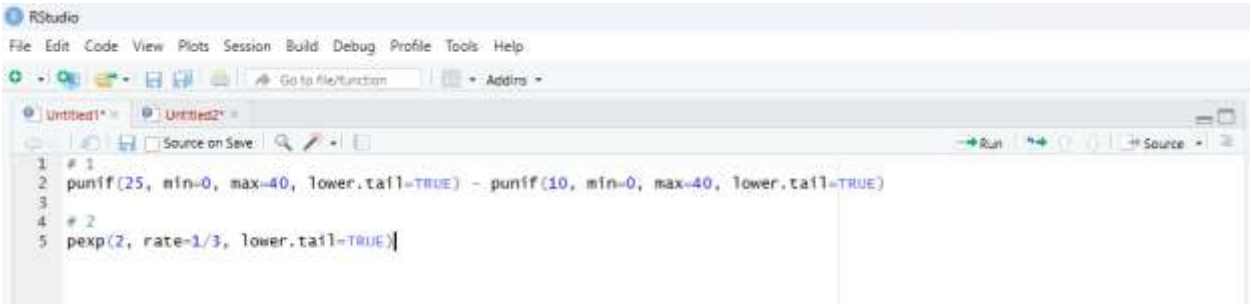
B.Sc. (Hons) in Information Technology

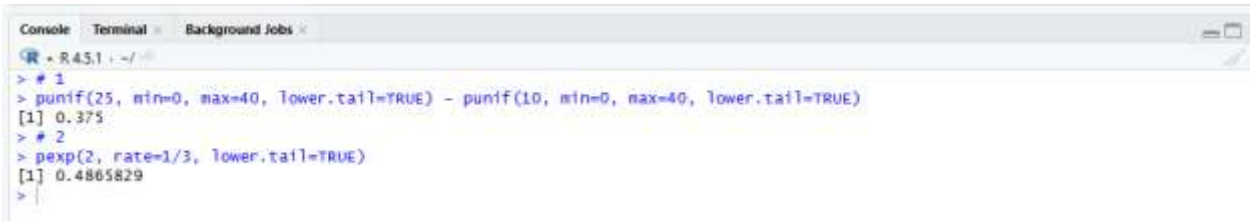
1)


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Addins
Untitled1*
Untitled2*
Source on Save
Run
Source
1 # 1
2 punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
3
4


Console
Terminal
Background Jobs
R 4.5.1 · ~/
> # 1
> punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
[1] 0.375
>

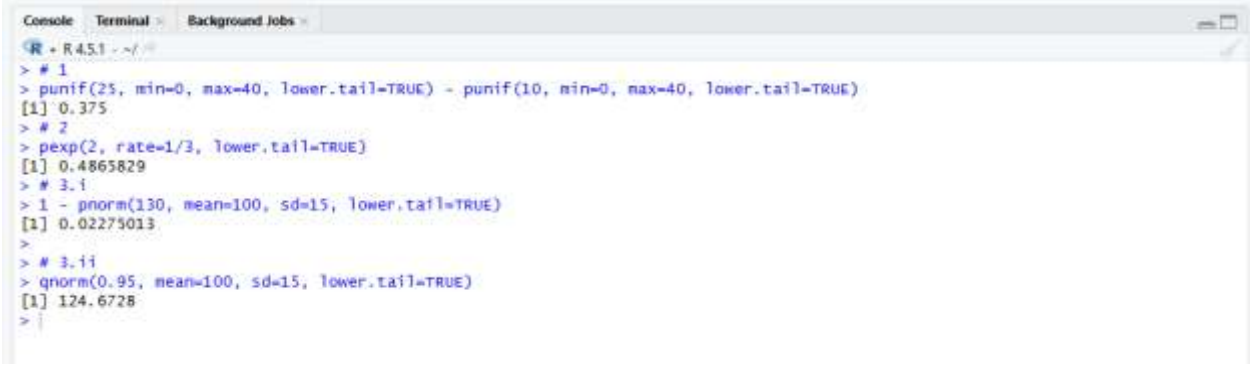
2)


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Addins
Untitled1*
Untitled2*
Source on Save
Run
Source
1 # 1
2 punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
3
4 # 2
5 pexp(2, rate=1/3, lower.tail=TRUE)


Console
Terminal
Background Jobs
R 4.5.1 · ~/
> # 1
> punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
[1] 0.375
> # 2
> pexp(2, rate=1/3, lower.tail=TRUE)
[1] 0.4865829
>

3)


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source on Save
Run
Source
# 1
punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
# 2
pexp(2, rate=1/3, lower.tail=TRUE)
# 3.i
1 - pnorm(130, mean=100, sd=15, lower.tail=TRUE)
# 3.ii
qnorm(0.95, mean=100, sd=15, lower.tail=TRUE)


Console
Terminal
Background Jobs
R 4.5.1
> # 1
> punif(25, min=0, max=40, lower.tail=TRUE) - punif(10, min=0, max=40, lower.tail=TRUE)
[1] 0.375
> # 2
> pexp(2, rate=1/3, lower.tail=TRUE)
[1] 0.4865829
> # 3.i
> 1 - pnorm(130, mean=100, sd=15, lower.tail=TRUE)
[1] 0.02275013
>
> # 3.ii
> qnorm(0.95, mean=100, sd=15, lower.tail=TRUE)
[1] 124.6728
>