Sri Lanka Institute of Information Technology

Lab Submission
<Lab Sheet No 7>

<IT24104099>

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Probability and Statistics – IT2120

B.Sc. (Hons) in Information Technology

```r
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)
6
7   # 3.i
8   1 - pnorm(130, mean=100, sd=15, lower.tail=TRUE)
9
10  # 3.ii
11  qnorm(0.95, mean=100, sd=15, lower.tail=TRUE)
12
```

12:1   (Top Level)

Console   Terminal ×   **Background Jobs** ×

R ▾ 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
>
```