

Exercise 01

```
> getwd()
[1] "C:/Users/Havindu Sineth/Documents"
> setwd("C://Users//Havindu Sineth//Desktop//IT24300019_PS Lab-07")
> punif(10,min = 0 ,max = 30 ,lower.tail = TRUE)
[1] 0.3333333
> 1 - punif(20,min = 0 ,max = 30 ,lower.tail = TRUE)
[1] 0.3333333
> punif(10,min = 0 ,max = 30 ,lower.tail = FALSE)
[1] 0.6666667
> |
```

```
> pexp(3,rate = 0.5,lower.tail = TRUE)
[1] 0.7768698
> 1-pexp(4,rate = 0.5,lower.tail = TRUE)
[1] 0.1353353
> pexp(3,rate = 0.5,lower.tail = FALSE)
[1] 0.2231302
> pexp(4,rate = 0.5,lower.tail = TRUE)-pexp(2,rate = 0.5,lower.tail = TRUE)
[1] 0.2325442
> |
```

```
> 1- pnorm(37.9,mean = 36.8,sd =0.4 ,lower.tail = TRUE)
[1] 0.002979763
> pnorm(37.9,mean = 36.8,sd =0.4 ,lower.tail = TRUE)-pnorm(36.4,mean = 36.8,sd =0.4 ,
lower.tail = TRUE)
[1] 0.838365
> qnorm(0.012,mean = 36.8 ,sd =0.4 , lower.tail = TRUE)
[1] 35.89715
> qnorm(0.01,mean = 36.8 ,sd =0.4 , lower.tail = FALSE)
[1] 37.73054
> |
```

Exercise 02

```
20
21 punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
22 pexp(2, rate = 1/3)
23 1 - pnorm(130, mean = 100, sd = 15)
24 qnorm(0.95, mean = 100, sd = 15)
25 |
26
27
```

25:1 (Top Level) ▾

Console Terminal × Background Jobs ×

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```
>
>
>
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>
> punif(25, min = 0, max = 40) - punif(10, min = 0, max = 40)
[1] 0.375
> pexp(2, rate = 1/3)
[1] 0.4865829
> 1 - pnorm(130, mean = 100, sd = 15)
[1] 0.02275013
> qnorm(0.95, mean = 100, sd = 15)
[1] 124.6728
> |
```