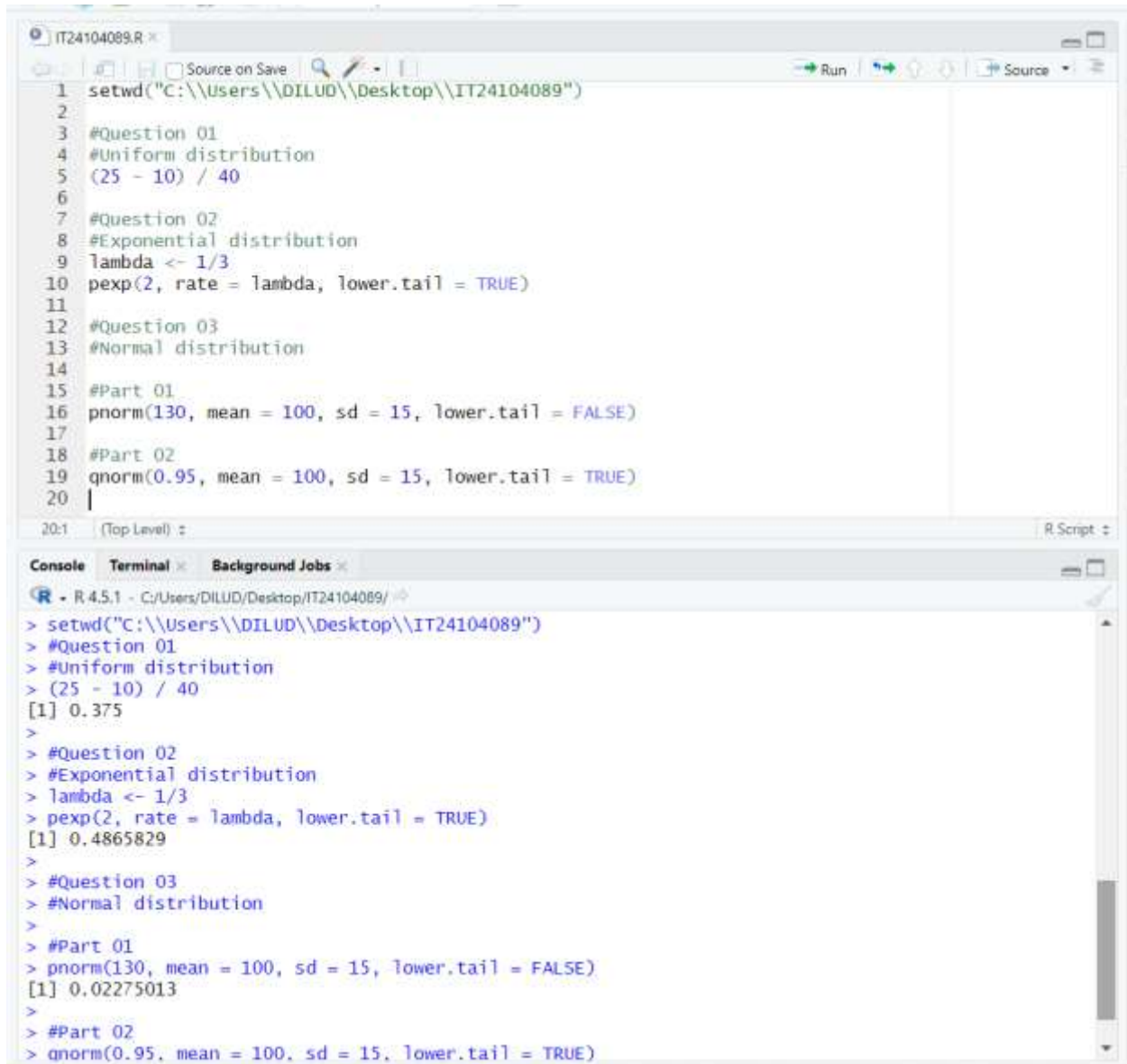


IT24104089

Fernando K.D.P.S



The screenshot shows an R Studio window with a script editor and a console. The script editor contains the following R code:

```
1 setwd("C:\\Users\\DILUD\\Desktop\\IT24104089")
2
3 #Question 01
4 #Uniform distribution
5 (25 - 10) / 40
6
7 #Question 02
8 #Exponential distribution
9 lambda <- 1/3
10 pexp(2, rate = lambda, lower.tail = TRUE)
11
12 #Question 03
13 #Normal distribution
14
15 #Part 01
16 pnorm(130, mean = 100, sd = 15, lower.tail = FALSE)
17
18 #Part 02
19 qnorm(0.95, mean = 100, sd = 15, lower.tail = TRUE)
20 |
```

The console shows the output of the script:

```
R - R 4.5.1 - C:/Users/DILUD/Desktop/IT24104089/
> setwd("C:\\Users\\DILUD\\Desktop\\IT24104089")
> #Question 01
> #Uniform distribution
> (25 - 10) / 40
[1] 0.375
>
> #Question 02
> #Exponential distribution
> lambda <- 1/3
> pexp(2, rate = lambda, lower.tail = TRUE)
[1] 0.4865829
>
> #Question 03
> #Normal distribution
>
> #Part 01
> pnorm(130, mean = 100, sd = 15, lower.tail = FALSE)
[1] 0.02275013
>
> #Part 02
> qnorm(0.95, mean = 100, sd = 15, lower.tail = TRUE)
```

```
> #Part 02
> qnorm(0.95, mean = 100, sd = 15, lower.tail = TRUE)
[1] 124.6728
> |
```