IT24100220 → N.Sanujan

Lab07_PS

```
getwd()
setwd("C:\\Users\\Admin\\OneDrive\\Desktop")
getwd()

#Q1.
prob1 <- punif(25, min=0, max=40) - punif(10, min=0, max=40)
prob1

#Q2.
prob2 <- pexp(2, rate = 1/3)
prob2

#Q3.
#I.
prob3_i <- 1 - pnorm(130, mean=100, sd=15,, lower.tail=TRUE)
prob3_i

#II.
iq95 <- qnorm(0.95, mean=100, sd=15)
iq95
```

R ▾	Global Environment ▾	
Values		
iq95	124.672804404272	
prob1	0.375	
prob2	0.486582880967408	
prob3_i	0.0227501319481792	

Files Plots Packages Help Viewer Presentatic

Zoom Export ▾

Console **Terminal** **Background Jobs**

R ▾ R 4.5.1 · C:/Users/Admin/OneDrive/Desktop/

```
> getwd()
[1] "C:/Users/Admin/OneDrive/Desktop"
> setwd("C:\\Users\\Admin\\OneDrive\\Desktop")
> getwd()
[1] "C:/Users/Admin/OneDrive/Desktop"
>
> #Q1.
> prob1 <- punif(25, min=0, max=40) - punif(10, min=0, max=40)
> prob1
[1] 0.375
>
> #Q2.
> prob2 <- pexp(2, rate = 1/3)
> prob2
[1] 0.4865829
>
> #Q3.
> #I.
> prob3_i <- 1 - pnorm(130, mean=100, sd=15,, lower.tail=TRUE)
> prob3_i
[1] 0.02275013
>
> #II.
> iq95 <- qnorm(0.95, mean=100, sd=15)
> iq95
[1] 124.6728
>
```