

## **INSTITUTO TECNOLÓGICO DE TIJUANA**

**MATERIA:** MINERIA DE DATOS

**INGENIERIA:**

Ing.Tecnologías de la información y la comunicación.

**NOMBRE DEL TRABAJO:**

PRACTICA 1

**ALUMNO(S):**

**Nombre:**

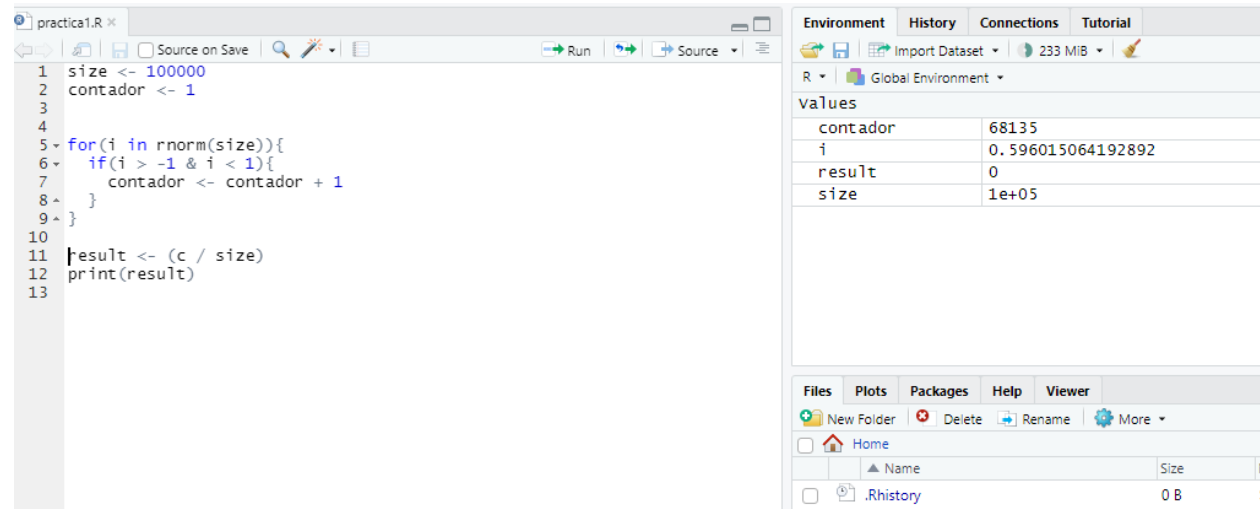
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## Practica 1

Test the Law Of Large Numbers for N random normally distributed numbers with mean = 0, stdev=1:

Create an R script that will count how many of these numbers fall between -1 and 1 and divide by the total quantity of N



The screenshot shows the RStudio environment with a script named 'practica1.R' open in the editor. The script contains the following R code:

```
1 size <- 100000
2 contador <- 1
3
4
5 for(i in rnorm(size)){
6   if(i > -1 & i < 1){
7     contador <- contador + 1
8   }
9 }
10
11 result <- (c / size)
12 print(result)
13
```

The RStudio interface also shows the 'Environment' pane on the right, which displays the values of the variables defined in the script:

Variable	Value
contador	68135
i	0.596015064192892
result	0
size	1e+05

The 'Files' pane at the bottom right shows the file explorer with a folder named '.Rhistory' and a file named '.Rhistory' with a size of 0 B.