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

You know that E(X) = 68.2%Check that Mean(Xn)->E(X) as you rerun your script while increasing N

Hint:

- 1. Initialize sample size
- 2. Initialize counter
- 3. loop for(i in rnorm(size))
- 4. Check if the iterated variable falls
- 5. Increase counter if the condition is true
- 6. return a result <- counter / N

```
N <-1000
Counter <-0

for(i in rnorm(N, mean = 0, sd = 1 ))
{
   if(i >=-1 && i <=1){
      Counter<- Counter+1
   }
}
result <-Counter/N</pre>
```

- What was done in this first practice was to declare some parameters to later do operations with them.
- The counter was initialized with the established ranges so that it will return the numbers between -1 and 1.
- At the end a "return" was added with an operation to obtain its result.