Exercise 3, chapter 3

In this exercise I have to use simulation to approximate $\int_0^1 e^{e^x} dx$.

```
simba <- function(n){ #Function to estimate the given integral
  gem <- c()
  for (i in 1:n) {
    x <- runif(1)
    evalsimba <- exp(exp(x)) #evaluate the function.
    gem <- c(evalsimba,gem) #Store my function values.
  }
  estimat <- sum(gem)/n #calulate the estimate.
  return(estimat)
}
n=100000
simba(n)
```

By this simulation the approximation is 6.320417