**INPUT:**

#Generate a sample dataset

set.seed(789)

#Gamma distribution with shape =1.5 , rate=0.2

survival\_times <- rgamma(150,shape = 1.5, rate = 0.2)

#Calculate the Hazard rates

hazard\_rates <- 0.2

#Calculate Mills Ratio

mills\_ratio <- 1 - exp(-hazard\_rates\* survival\_times)

#Plot the Mills Ratio

hist(mills\_ratio, breaks=30, col="lightyellow", main="Mills Ratio Distribution",

xlab="Mills Ratio")

**OUTPUT:**

