**INPUT:**

#set the parameter

#total number of matches

n <- 20

#probability of success in a individual match

p <- 0.6

#lower limit for success

lower\_limit <- 10

#Calculate the PMF for success within the lower limit

pmf <- dbinom(lower\_limit, size = n, prob = p)

#Calculate the CDF for success within the lower limit

cdf <- pbinom(lower\_limit, size = n, prob = p)

#Print the Results

cat("PMF :",pmf,"\n")

cat("CDF :",cdf,"\n")

**OUTPUT:**

> cat("PMF :",pmf,"\n")

PMF : 0.1171416

> cat("CDF :",cdf,"\n")

CDF : 0.2446628