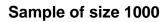
Central_Limit_Theorem

Kingsuk_Jana

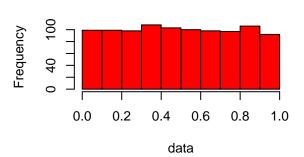
2023-03-14

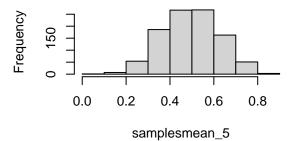
Solution of question 1

```
# echo=FALSE to prevent codes
set.seed(123)
par(mfrow=c(2,2))
# Lets draw sample of size 1000 from exponential distribution
data=runif(n=1000, min=0, max=1)
# Histogram of the data
hist(data, col="red", main="Sample of size 1000")
# Create a empty vector to keep the sample mean
samplesmean_5<-c()</pre>
# Take 1000 random sample with size 2 from the population
n=1000
for(i in 1:1000){
  samplesmean_5[i]=mean(sample(data, 5, replace=TRUE))
}
print(samplesmean_5)
hist(samplesmean_5, main="Distribution of samples mean, size =5")
```



Distribution of samples mean, size =5





Write yours commends here

Solution of question 2