Nama : Bravina Aulia Damiri

Nim : B2A020011

Rombel : A

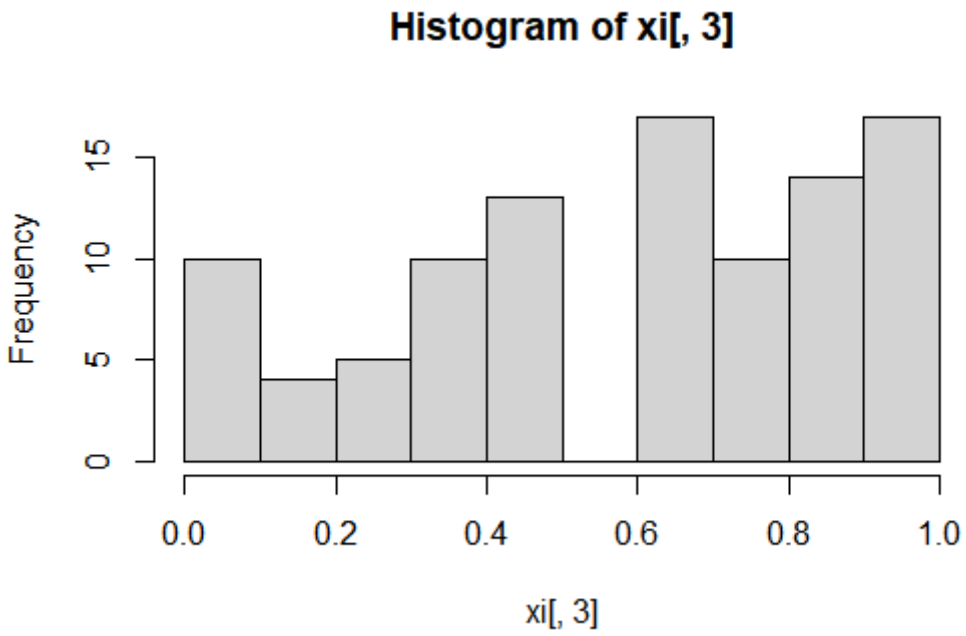
Nim Ganjil

- **Syntax**

```
Addtive_RNG<-function(a,z0,c,m,n){
 xi<-matrix(NA,n,3)
 colnames(xi)<-c("aZ(i-1)+c", "Xi", "Ui")
 for (i in 1:n)
 {
  xi[i,1]<-(a*z0+c)
  xi[i,2]<-xi[i,1]%%m
  xi[i,3]<-xi[i,2]/m
  z0<-xi[i,2]
 }
 hist(xi[,3])
 View(xi)
}
Addtive_RNG(35,11123,437,138,100)
```

- **Consule**

- **Plot**



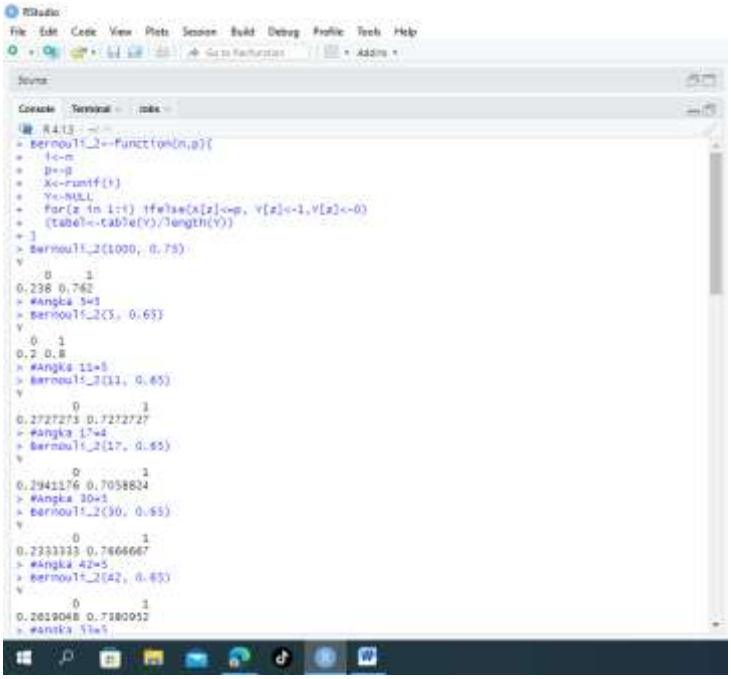
Bernouli

- **Syntax**

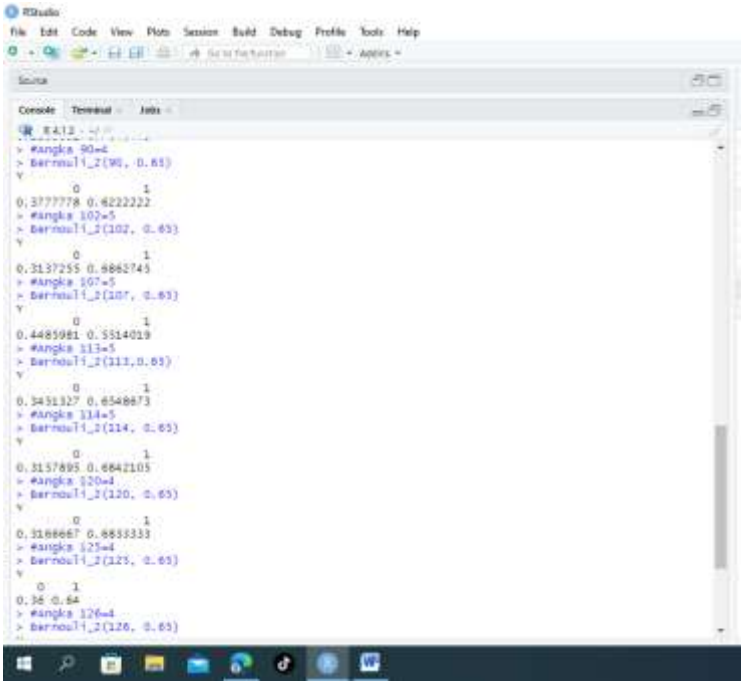
```
Bernouli_2<-function(n,p){
 i<-n
 p<-p
 X<-runif(i)
 Y<-NULL
 for(z in 1:i) ifelse(X[z]<=p, Y[z]<-1,Y[z]<-0)
 (tabel<-table(Y)/length(Y))
}
Bernouli_2(1000, 0.75)
#Angka 5=5
Bernouli_2(5, 0.65)
#Angka 11=5
Bernouli_2(11, 0.65)
#Angka 17=4
Bernouli_2(17, 0.65)
#Angka 30=5
Bernouli_2(30, 0.65)
#Angka 42=5
Bernouli_2(42, 0.65)
#Angka 53=5
Bernouli_2(53, 0.65)
```

#Angka 60=5
Bernouli_2(60, 0.65)
#Angka 65=4
Bernouli_2(65, 0.65)
#Angka 66=4
Bernouli_2(66, 0.65)
#Angka 83=4
Bernouli_2(83, 0.65)
#Angka 84=4
Bernouli_2(84, 0.65)
#Angka 89=5
Bernouli_2(89, 0.65)
#Angka 90=4
Bernouli_2(90, 0.65)
#Angka 102=5
Bernouli_2(102, 0.65)
#Angka 107=5
Bernouli_2(107, 0.65)
#Angka 113=5
Bernouli_2(113,0.65)
#Angka 114=5
Bernouli_2(114, 0.65)
#Angka 120=4
Bernouli_2(120, 0.65)
#Angka 125=4
Bernouli_2(125, 0.65)
#Angka 126=4
Bernouli_2(126, 0.65)
#Angka 132=5
Bernouli_2(132, 0.65)
#Angka 137=4
Bernouli_2(137, 0.65)

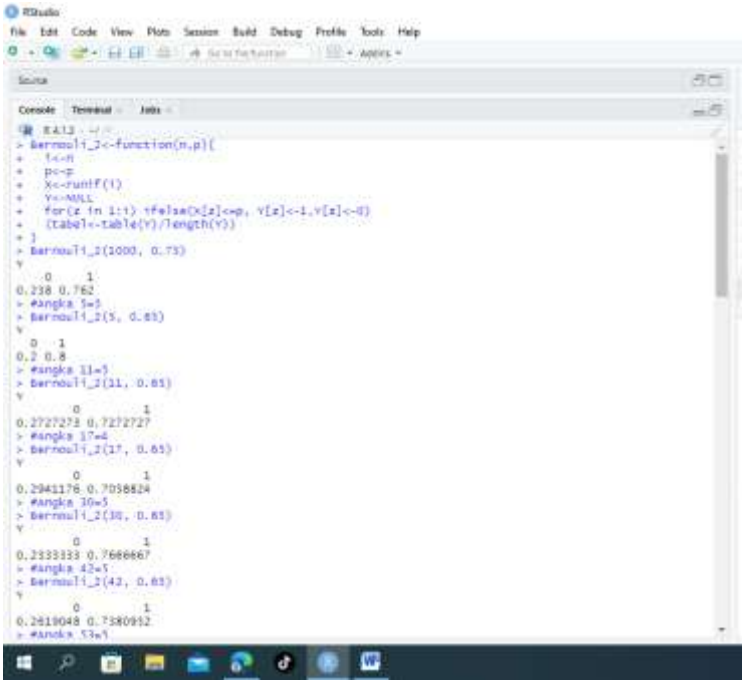
- **Consule**



```
> bernoulli_2<-function(n,p){
+   i<-n
+   p<-p
+   x<-runif(i)
+   Y<-NULL
+   for(z in 1:i) ifelse(x[z]<=p, Y[z]<-1,Y[z]<-0)
+   (tabel<-table(Y)/length(Y))
+ }
> bernoulli_2(1000, 0.75)
Y
    0     1
0.238 0.762
> #angka 5=5
> bernoulli_2(5, 0.65)
Y
  0   1
0.2 0.8
> #angka 11=5
> bernoulli_2(11, 0.65)
Y
        0         1
0.2727273 0.7272727
> #angka 17=4
> bernoulli_2(17, 0.65)
Y
        0         1
0.2941176 0.7058824
> #angka 30=5
> bernoulli_2(30, 0.65)
Y
        0         1
0.2333333 0.7666667
> #angka 42=5
> bernoulli_2(42, 0.65)
Y
        0         1
0.2619048 0.7380952
> #angka 53=5
```



```
> #angka 90=4
> bernoulli_2(90, 0.65)
Y
        0         1
0.3777778 0.6222222
> #angka 102=5
> bernoulli_2(102, 0.65)
Y
        0         1
0.3137255 0.6862745
> #angka 107=5
> bernoulli_2(107, 0.65)
Y
        0         1
0.4485981 0.5514019
> #angka 113=5
> bernoulli_2(113,0.65)
Y
        0         1
0.3451327 0.6548673
> #angka 114=5
> bernoulli_2(114, 0.65)
Y
        0         1
0.3157895 0.6842105
> #angka 120=4
> bernoulli_2(120, 0.65)
Y
        0         1
0.3166667 0.6833333
> #angka 125=4
> bernoulli_2(125, 0.65)
Y
   0    1
0.36 0.64
> #angka 126=4
> bernoulli_2(126, 0.65)
```


RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Source
Console Terminal Jobs
> Bernoulli_2<-function(n,p){
+ t<-n
+ p<-p
+ X<-runif(t)
+ Y<-NULL
+ for(z in 1:t) ifelse(X[z]<=p, Y[z]<-1,Y[z]<-0)
+ (tabel<-table(Y)/length(Y))
+ }
> Bernoulli_2(1000, 0.73)
Y
0 1
0.238 0.762
> #angka 5=5
> Bernoulli_2(5, 0.85)
Y
0 1
0.2 0.8
> #angka 11=5
> Bernoulli_2(11, 0.85)
Y
0 1
0.2727273 0.7272727
> #angka 17=4
> Bernoulli_2(17, 0.85)
Y
0 1
0.2941176 0.7058824
> #angka 30=5
> Bernoulli_2(30, 0.85)
Y
0 1
0.2333333 0.7666667
> #angka 42=5
> Bernoulli_2(42, 0.85)
Y
0 1
0.2619048 0.7380952
> #angka 53=5