

**DELHI TECHNOLOGICAL
UNIVERSITY**

**PROBABILITY AND STATISTICS (MC-
205)**

PRACTICAL FILE



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EXPERIMENT 3

Pictorial Representation of Data:

- a) Histogram
- b) Histogram(high density vertical line plot)
- c) Bar Chart
- d) Scatter Plot
- e) Pie Chart
- f) Stepped Line Graph

SOURCE CODE:

Sample Data Taken:

```
samdat<-  
c(1,2,3,4,5,6,7,8,4,3,1,3,4,6,7,8,6,4,3,2,12,15,17,2,9,0,0,8,7,6,5,9,9,19,17,16)
```

a. Histogram

```
>hist(samdat)
```

b. Histogram (high density vertical line plot)

```
plot(samdat, type = 'h')
```

c. Bar Chart

```
barplot(  
    samdat,  
    main="Numerical Data with Indices",  
    xlab='Numbers',  
    col='blue',  
    horiz=TRUE)
```

d. Scatter Plot

```
plot(  
    samdat,  
    xlab='Sample Numerical Data',  
    ylab='Indices',  
    main='Numerical Data with Indices',  
    col='red')
```

e. Pie Chart

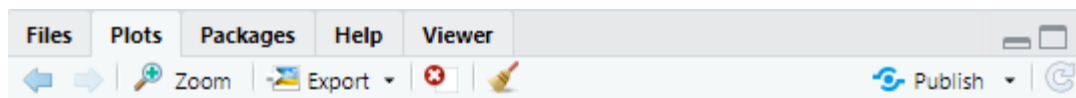
```
pie(pie.data)  
pie(pie.data,col=rainbow(36))
```

f. Stepped in Line Graph

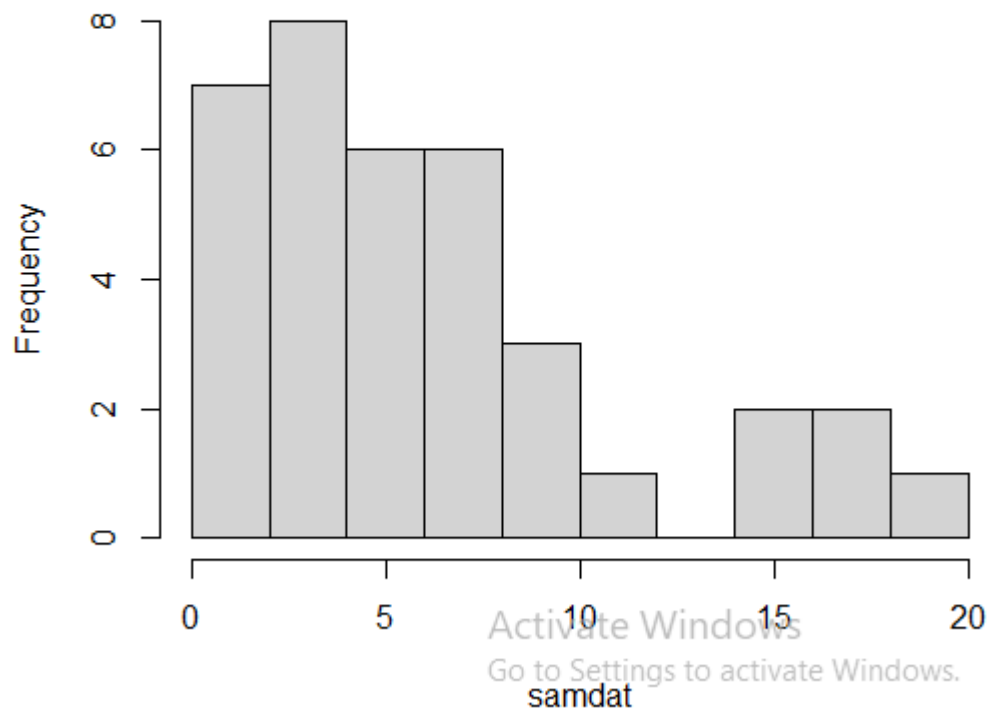
```
plot(samdat,type='s')
```

OUTPUT:

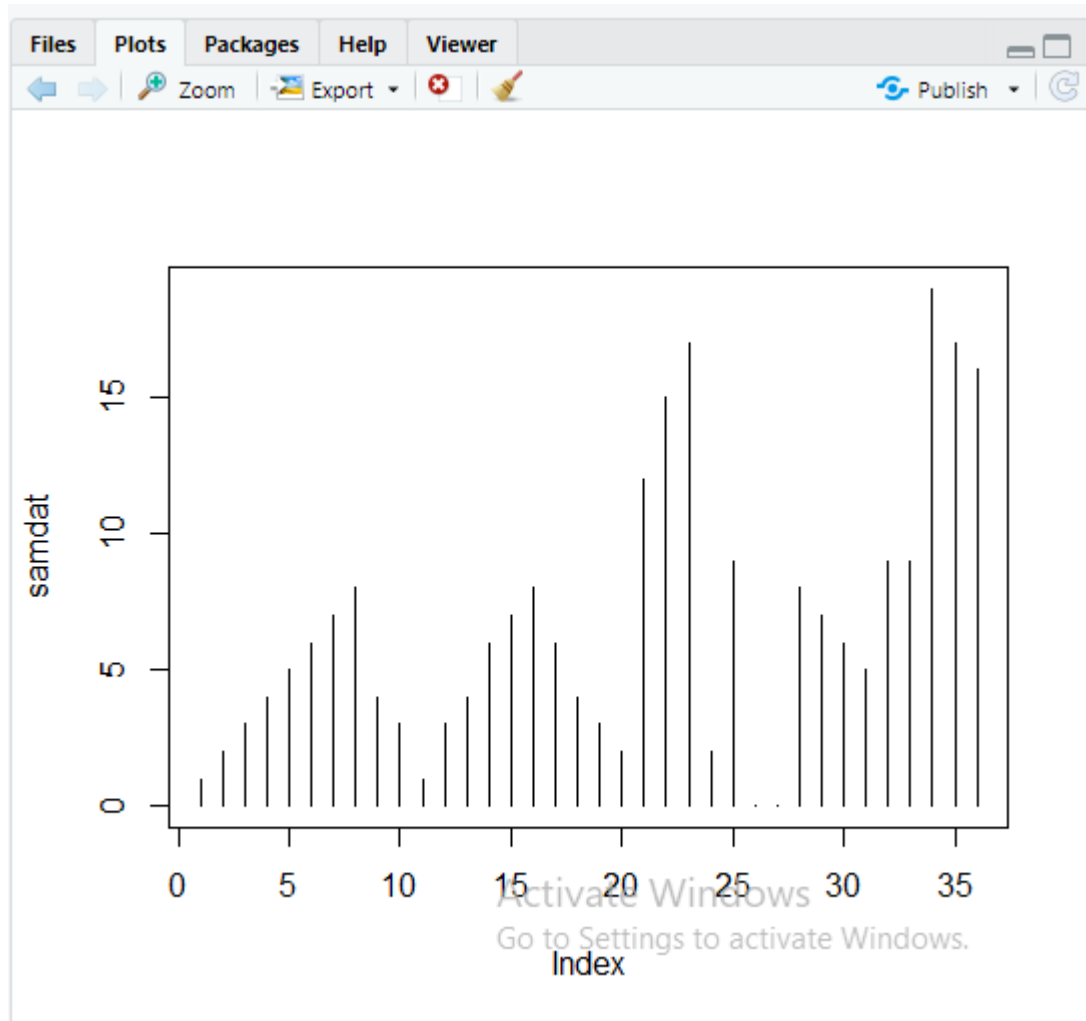
a. Histogram



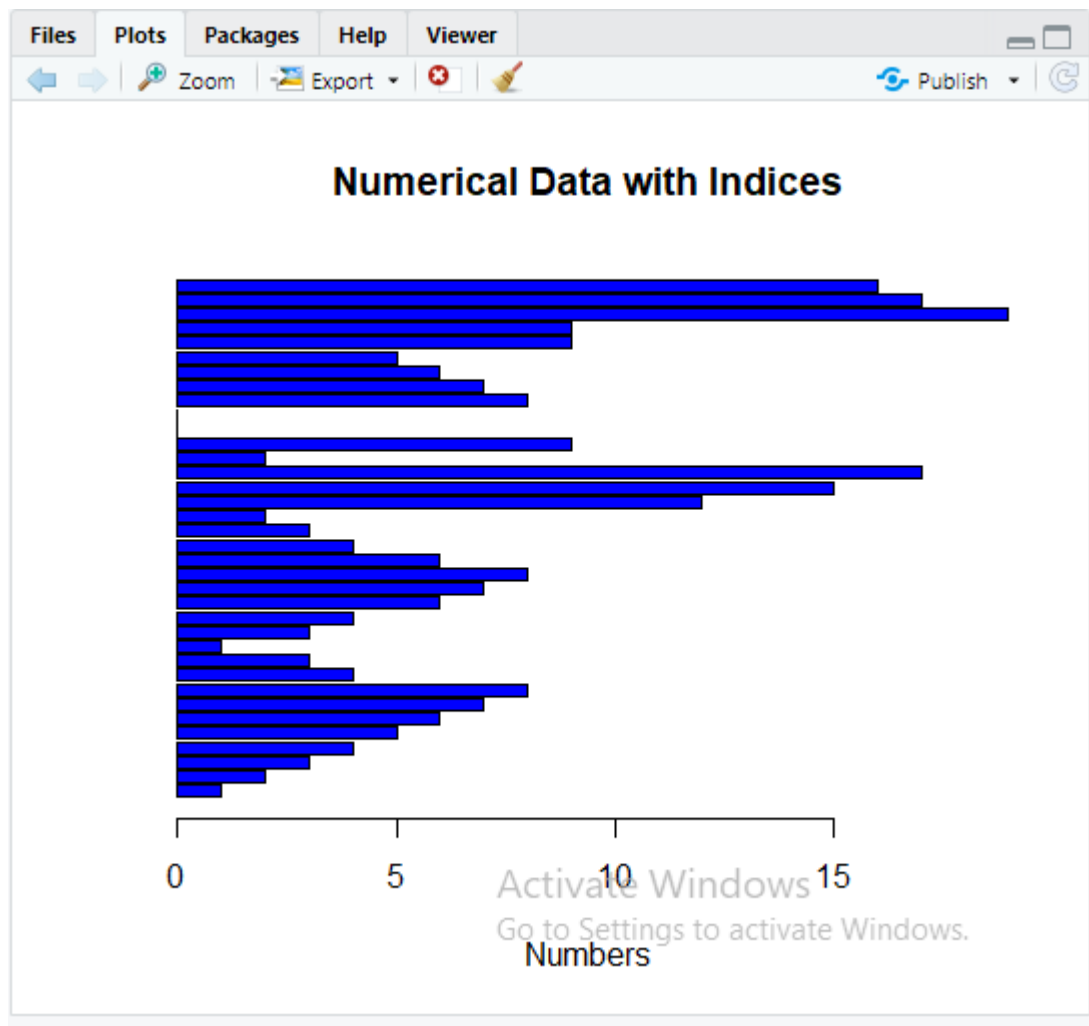
Histogram of samdat



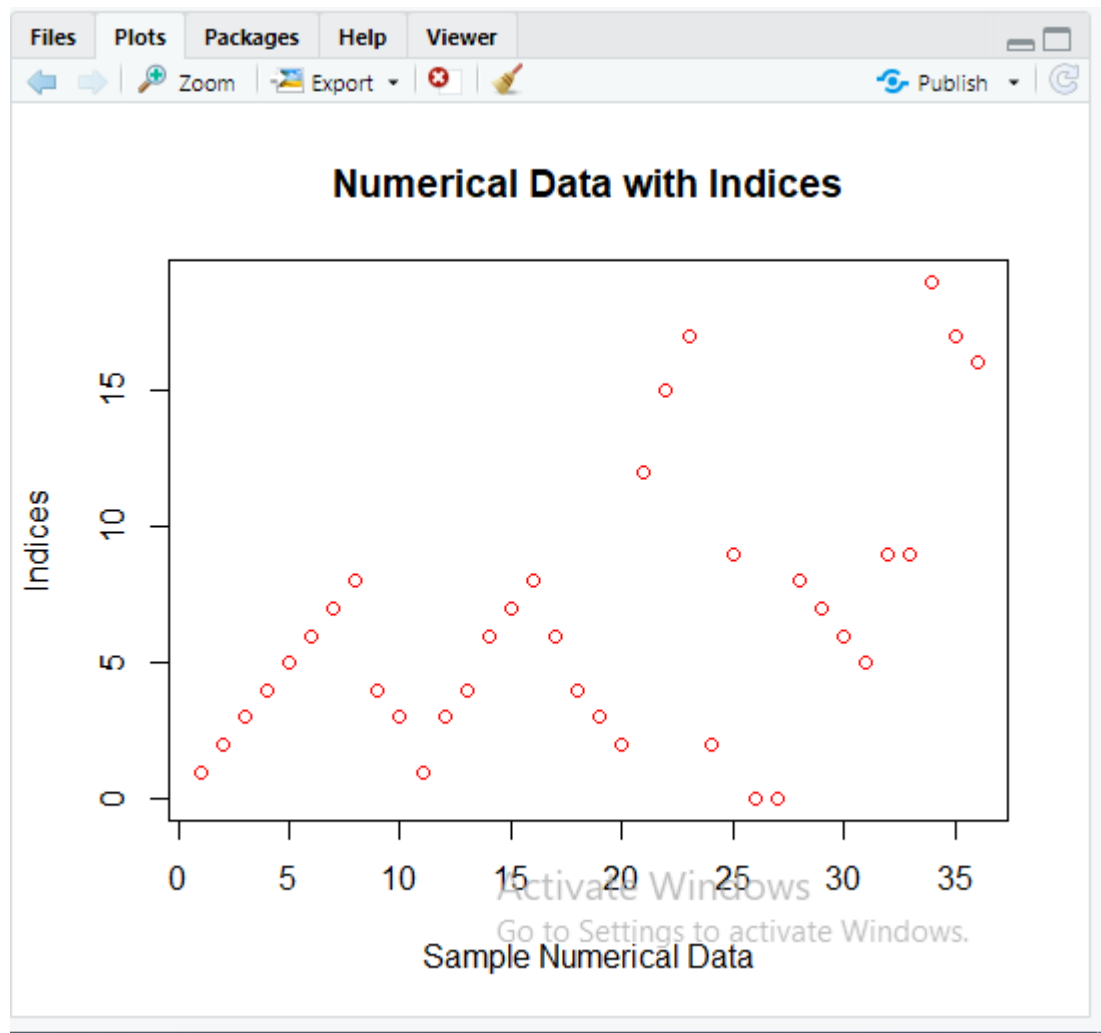
b. Histogram (high density vertical line plot)



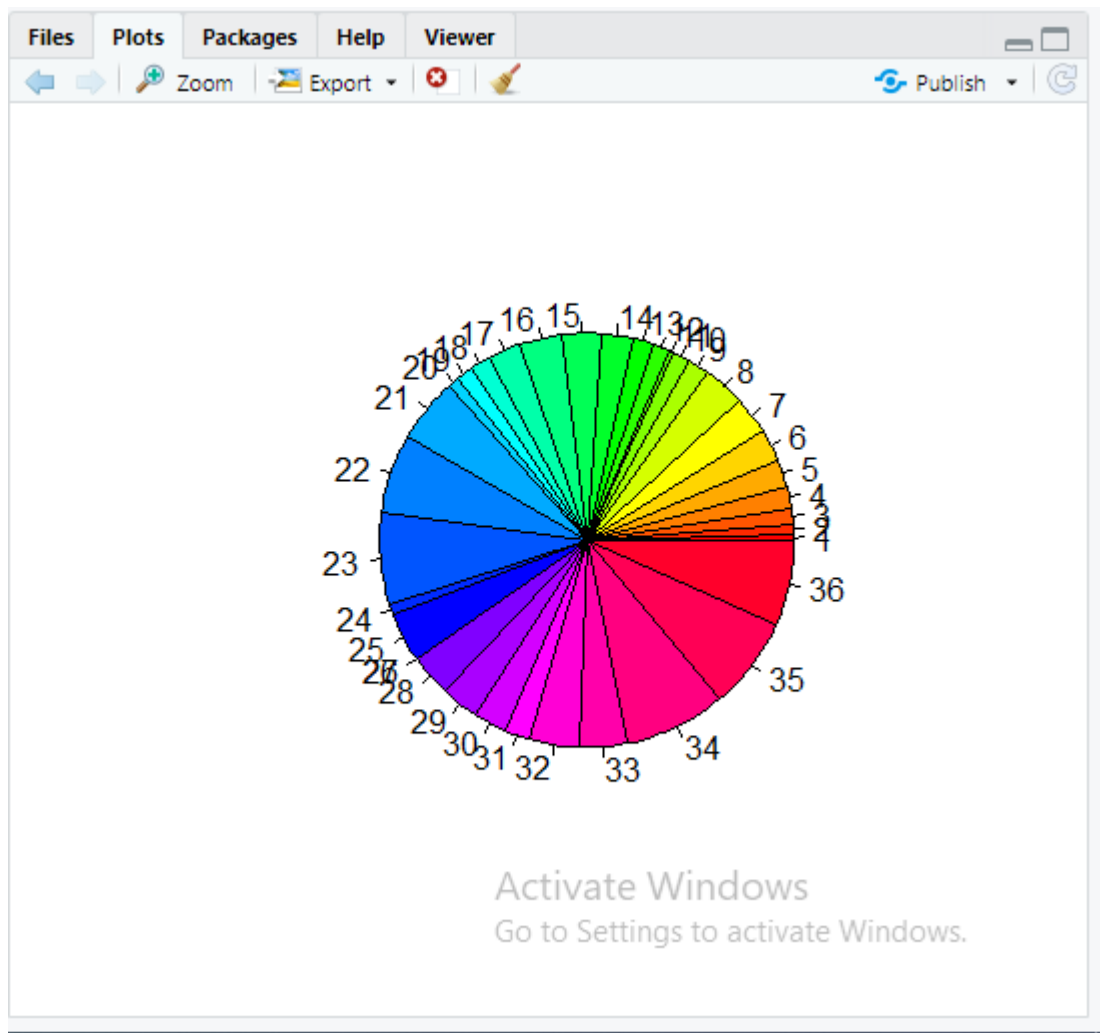
c. Bar Chart



d. Scatter Plot



e. Pie Chart



f. Stepped in Line Graph

