IT2120 - Probability and Statistics

Lab Sheet 05

IT24101266 Perera M U E

Q1).

1. Import the dataset ('Exercise – Lab 05.txt') into R and store it in a data frame called "Delivery_Times".

```
1  setwd("C:\\Users\\it24101266\\Desktop\\IT24101266")
2  getwd()
```

```
> setwd("C:\\Users\\it24101266\\Desktop\\IT24101266")
> getwd()
[1] "C:/Users/it24101266/Desktop/IT24101266"
```

Data Editor

File   Edit   Help

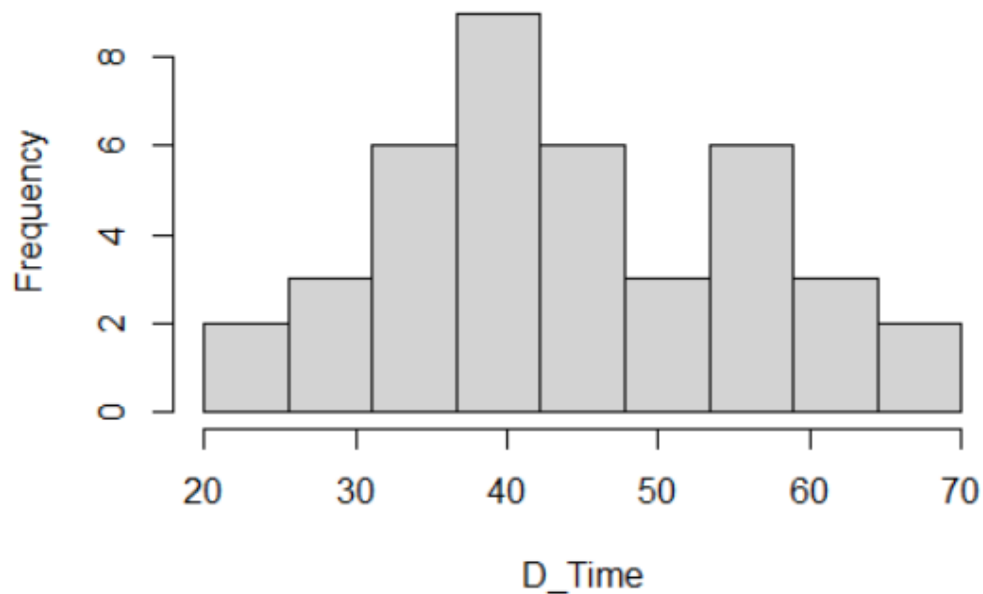|	Delivery_Time_.minutes.	var2	var3	var4	var5	var6	var7	var8	var9	var10	var11	var12	var13
1	34												
2	54												
3	47												
4	29												
5	39												
6	61												
7	20												
8	40												
9	57												
10	36												
11	38												
12	44												
13	59												
14	38												
15	40												
16	40												
17	67												
18	66												
19	55												
20	48												
21	52												
22	59												
23	35												
24	56												
25	32												
26	38												
27	54												
28	30												
29	43												
30	36												
31	42												
32	20												

Q2).

2. Draw a histogram for deliver times using nine class intervals where the lower limit is 20 and upper limit is 70. Use right open intervals.

	D_Time	var2	var3	var4	var5	var6	var7
1	34						
2	54						
3	47						
4	29						
5	39						
6	61						
7	20						
8	40						
9	57						
10	36						
11	38						
12	44						
13	59						
14	38						
15	40						
16	40						
17	67						
18	66						
19	55						

Histrogram for deliver times

Q3).

3. Comment on the shape of the distribution.

#Most of the data is at the low end, forming a peak on the left,and a few high values stretch the graph out to the right.|

Q4).

4. Draw a cumulative frequency polygon (ogive) for the data in a separate plot.

Cumulative Frequency Polygon for deliver times