NAME: SIOW ZHE YI MATRIC NUMBER: B032220024

### **EXERCISE 5**

screen shot of output

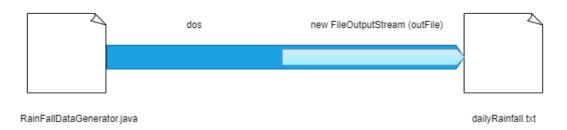
### RainFallDataGenerator.java

## RainFallDataReader.java

```
} catch (Exception ex) {
58
 Problems 🏿 Javadoc 🖳 Declaration 📮 Console 🗡 🔓 Git Repositories 📥 Git Staging
<terminated> RainFallDataReader [Java Application] C:\Users\User\Downloads\eclipse\plugins\org
Reading data from dailyRainfall.txt
31/05/2023
                  5.0
01/06/2023
                 0.0
02/06/2023
                0.0
03/06/2023
                 4.0
04/06/2023
                 1.0
05/06/2023
                0.0
Average rainfall for 6 days: 1.7mm
End of program.
```

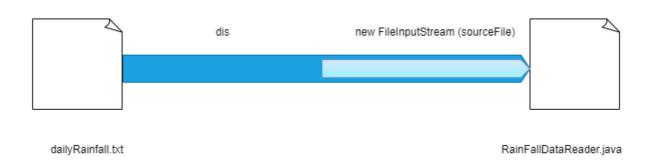
#### Design:

Task A: describe Java I/O interaction to create the data using java.io.DataOutputStream



Task C: The first describes Java I/O interaction to consume the data. The second diagram shall describe the Java classes that will display rainfall data and compute the average of the rainfall for 6 days.

Stream Interaction



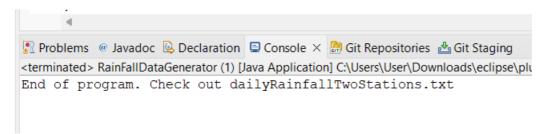
### Class Diagram



#### **EXERCISE 6**

# screen shot of output

# Rain Fall Data Generator. java



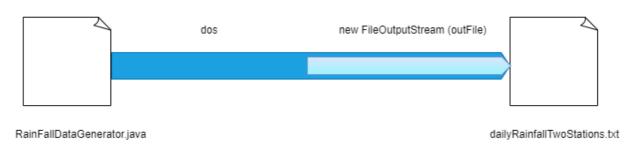
# RainFallDataReader.java

4		-				
Problems @ Javadoc    □ Declaration    □ Console						m × ¾   ii
<terminated> RainFallDataReader ******* Readin</terminated>					oot.jre.full.win32.x86_64_	17.0.6.v20230204-1729\j
Keauli	ig data from dar.	rykarmiairiwosta	ICIONS.CAC			
Rain fall in Alor Gajah	n					
	1/06/2023	02/06/2023	03/06/2023	04/06/2023	05/06/2023	06/06/2023
2421003 Simpang Ampat	0.0	0.0	4.0	1.0	0.0	6.0
2322006 Melaka Pindah	0.0	0.0	0.0	0.0	0.0	2.0
Total rain fall in Sim Average rain fall in S						
Total rain fall in Mela Average rain fall in Me						
Rain fall in Jasin						
	1/06/2023	02/06/2023	03/06/2023	04/06/2023	05/06/2023	06/06/2023
2225044 Telok Rimba	13.0	0.0	0.0	1.0	1.0	69.0
2324033 Hospital Jasin	22.0	0.0	0.0	14.0	0.0	11.0
Total rain fall in Telo Average rain fall in Te						
Total rain fall in Hosp Average rain fall in Ho	ospital Jasin: 7	.8mm.				
Rain fall in Melaka Ter						
2223023 Sg. Du <b>y</b> ong	1/06/2023 37.0	02/06/2023 0.0	03/06/2023 0.0	04/06/2023 3.0	05/06/2023 0.0	06/06/2023 43.0
2222033 Batu Hampar	-9999.0	-9999.0	0.0	2.5	0.0	30.0

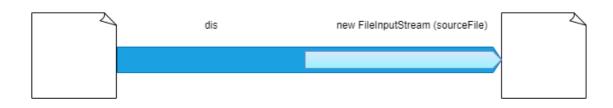
## Design:

Task A: describe Java I/O interaction to create the data using java.io.DataOutputStream

Stream Interaction



Task C: The first describes Java I/O interaction to consume the data. The second diagram shall describe the Java classes that will display rainfall data and compute the average of the rainfall for 6 days.



dailyRainfallTwoStations.txt

RainFallDataReader.java

## Class Diagram

