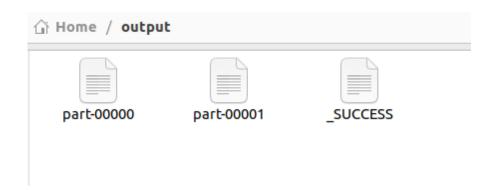
Input file:

One day I was returning from the school. When I was about 1 Km away from my house, it started raining. I had no umbrella. I stood under a shed in front of a shop. Half an hour passed. Rain became heavier. Street was full of water now. I could not stand like this forever. So I decided to go in rain. I drenched completely. Some children were playing with paper boats. I also joined them. I forgot everything. Suddenly I saw my mother was coming with an umbrella. She scolded me. But I was happy. I can't forget that day.

Scala Word count

```
Q
                                                                          student@student: ~
student@student:~$ echo $SHELL
/bin/bash
student@student:~$ nano ~/.bashrc
student@student:~$ source ~/.bashrc
student@student:~$ echo $PATH
/home/student/DSBDA/spark-3.5.1-bin-hadoop3/bin:/home/student/spark-3.5.1-bin-ha
doop3/bin:/home/student/DSBDA/spark-3.5.1-bin-hadoop3/bin:/home/student/DSBDA/sp
ark-3.5.1-bin-hadoop3/bin:/home/student/spark-3.5.1-bin-hadoop3/bin:/home/studen
t/.local/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/g
ames:/usr/local/games:/snap/bin:/snap/bin:/opt/spark/spark-3.5.1-bin-hadoop3/bin
:/opt/spark/spark-3.5.1-bin-hadoop3/bin:/opt/spark/spark-3.5.1-bin-hadoop3/bin:/
opt/spark/spark-3.5.1-bin-hadoop3/bin
student@student:~$ spark -shell
Command 'spark' not found, did you mean:
 command 'nspark' from deb nspark (1.7.8B2+git20210317.cb30779-2)
Try: sudo apt install <deb name>
student@student:~$ spark-shell
25/04/07 14:47:07 WARN Utils: Your hostname, student resolves to a loopback addr
ess: 127.0.1.1, but we couldn't find any external IP address!
25/04/07 14:47:07 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another
address
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLeve
l(newLevel)
```

```
Try: sudo apt in:act spank (17.052-9612037.16367.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537.17537
```



//Method 2

wordcount1.scala

```
val inputfile = sc.textFile("/home/student/DSBDA/countword_input.txt")
val counts = inputfile.flatMap(line => line.split(" ")).map(word => (word,
1)).reduceByKey(_+_);
counts.toDebugString
counts.cache()
counts.saveAsTextFile("output")
```

```
student@student: ~/DSBDA/output

student@student: ~/DSBDA$ spark-shell< wordcount1.scala
25/04/07 15:03:50 WARN Utils: Your hostname, student resolves to a loopback address: 127.0.1.1; using 10.11.5.5
25/04/07 15:03:50 WARN Utils: Set SPARK_LOCAL_IP if you need to bind to another address
Setting default log level to "WARN".
To adjust logging level use sc.setLogLevel(newLevel). For SparkR, use setLogLevel(newLevel).
25/04/07 15:04:02 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builti
25/04/07 15:04:04 WARN Utils: Service 'SparkUI' could not bind on port 4040. Attempting port 4041.
Spark context Web UI available at http://10.11.5.57:4041
Spark context available as 'sc' (master = local[*], app id = local-1744018444893).
Spark session available as 'spark'.
Welcome to</pre>
```

```
student@student:~/DSBDA$ cd output/
student@student:~/DSBDA/output$ cat part-00000
(So,1)
(She,1)
(day.,1)
(this,1)
(under,1)
(paper,1)
(happy.,1)
(away,1)
(rain.,1)
(hour,1)
(umbrella.,2)
(decided,1)
(One,1)
```

```
student@student:~/DSBDA/output$ cat part-00001
(forget,1)
(the,1)
(not,1)
(it,1)
(stood,1)
(But,1)
(mother,1)
(forgot,1)
(water,1)
(joined,1)
(was,5)
(had,1)
(a,2)
(that,1)
```