

012306866(Agarwal , Harshit Gopal)

Q1.)

The given Jar file has to started from a command Line with the following command:

Java -jar Jar_File_Name File_to_read_transaction Number_of_Threads

Here is an example:

```
C:\Users\harsh\Desktop>java -jar BankTransaction.jar small.txt 4
acct:0 bal:999 trans:1
acct:1 bal:1001 trans:1
acct:2 bal:999 trans:1
acct:3 bal:1001 trans:1
acct:4 bal:999 trans:1
acct:5 bal:1001 trans:1
acct:6 bal:999 trans:1
acct:7 bal:1001 trans:1
acct:8 bal:999 trans:1
acct:9 bal:1001 trans:1
acct:10 bal:999 trans:1
acct:11 bal:1001 trans:1
acct:12 bal:999 trans:1
acct:13 bal:1001 trans:1
acct:14 bal:999 trans:1
acct:15 bal:1001 trans:1
acct:16 bal:999 trans:1
acct:17 bal:1001 trans:1
acct:18 bal:999 trans:1
acct:19 bal:1001 trans:1
```

```
C:\Users\harsh\Desktop>java -jar BankTransaction.jar 5k.txt 4
acct:0 bal:1000 trans:518
acct:1 bal:1000 trans:444
acct:2 bal:1000 trans:522
acct:3 bal:1000 trans:492
acct:4 bal:1000 trans:526
acct:5 bal:1000 trans:526
acct:6 bal:1000 trans:474
acct:7 bal:1000 trans:472
acct:8 bal:1000 trans:436
acct:9 bal:1000 trans:450
acct:10 bal:1000 trans:498
acct:11 bal:1000 trans:526
acct:12 bal:1000 trans:488
acct:13 bal:1000 trans:482
acct:14 bal:1000 trans:516
acct:15 bal:1000 trans:492
acct:16 bal:1000 trans:520
acct:17 bal:1000 trans:528
acct:18 bal:1000 trans:586
acct:19 bal:1000 trans:504
```

```
C:\Users\harsh\Desktop>java -jar BankTransaction.jar 100k.txt 4
acct:0 bal:1000 trans:10360
acct:1 bal:1000 trans:8880
acct:2 bal:1000 trans:10440
acct:3 bal:1000 trans:9840
acct:4 bal:1000 trans:10520
acct:5 bal:1000 trans:10520
acct:6 bal:1000 trans:9480
acct:7 bal:1000 trans:9440
acct:8 bal:1000 trans:8720
acct:9 bal:1000 trans:9000
acct:10 bal:1000 trans:9960
acct:11 bal:1000 trans:10520
acct:12 bal:1000 trans:9760
acct:13 bal:1000 trans:9640
acct:14 bal:1000 trans:10320
acct:15 bal:1000 trans:9840
acct:16 bal:1000 trans:10400
acct:17 bal:1000 trans:10560
acct:18 bal:1000 trans:11720
acct:19 bal:1000 trans:10080
```

All the Java files are given in the BankTransaction folder: There are 5 class File Bank , Account ,MainWorker, Transaction and BankRunTransaction(to run the program)

Q.2) The webLoader program is run in the same way as BankTransaction file from the command line. This time the only one argument containing(the text file containing all site links) must be provided to the system.

The program makes a swing application to execute the program.

```
C:\Users\harsh\Desktop>java -jar Webframe.jar links.txt
```

url	status
http://www.sjsuai.org/	
http://my.sjsu.edu/	
http://www.sjsu.edu/	
http://www.sjsu.edu/future_students/index.html	
http://www.sjsu.edu/academics/	
http://www.sjsuspartans.com/	
http://www.sjsu.edu/housingoptions/index.html	
https://www.google.com/	
https://trello.com/	
https://scaledinference.com/	
https://www.berkeley.edu/	

Single Fetch

Multiple Fetch

4


Running:

Completed:

Elapsed:

Stop

When the program is run with single Fetch Button:

 WebLoader

url	status
http://www.sjsuai.org/	15:50:06 5522ms 54676bytes
http://my.sjsu.edu/	15:50:12 2711ms 26219bytes
http://www.sjsu.edu/	15:50:15 3313ms 32137bytes
http://www.sjsu.edu/future_students/index.html	15:50:18 3113ms 30781bytes
http://www.sjsu.edu/academics/	15:50:21 2411ms 23263bytes
http://www.sjsuspartans.com/	15:50:24 7735ms 76030bytes
http://www.sjsu.edu/housingoptions/index.html	15:50:31 2713ms 26064bytes
https://www.google.com/	15:50:34 1606ms 10684bytes
https://trello.com/	15:50:36 6834ms 64257bytes
https://scaledinference.com/	15:50:43 3415ms 32408bytes
https://www.berkeley.edu/	15:50:47 5327ms 49667bytes

Single Fetch


Multiple Fetch

4

Running:0
Complete:11
Elapsed:46085

Stop

When the program is runned with multiple thread:

 WebLoader

url	status		
http://www.sjsuai.org/	15:48:28	5529ms	54676bytes
http://my.sjsu.edu/	15:48:28	2712ms	26219bytes
http://www.sjsu.edu/	15:48:28	3321ms	32137bytes
http://www.sjsu.edu/future_students/index.html	15:48:28	3116ms	30781bytes
http://www.sjsu.edu/academics/	15:48:31	2409ms	23263bytes
http://www.sjsuspartans.com/	15:48:31	7741ms	76030bytes
http://www.sjsu.edu/housingoptions/index.html	15:48:31	2713ms	26064bytes
https://www.google.com/	15:48:34	1612ms	10743bytes
https://trello.com/	15:48:34	6837ms	64257bytes
https://scaledinference.com/	15:48:35	3417ms	32408bytes
https://www.berkeley.edu/	15:48:35	5329ms	49667bytes

Single Fetch

Multiple Fetch

4

Running:0
Complete:11
Elapsed:13061

Stop