Backend Challenge - Solution

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Assumptions

- Web server will not send a message containing an ID, after it has sent a DONE message. In other words, ID message will never
 come from any source after a DONE message of that source.
- The web server will <u>not</u> terminate itself before application has a chance to sink all data to it. It is observed that for large data-set (n > 10,000) the web server terminates itself in 6 seconds which is not enough for application to sink remaining data to web server. This 6 seconds timeout needs to be increased when processing large data-set (n > 10,000). Ideally, there should be no timeout. Instead web server should terminate only after it has received all data from application.
- Application needs Java 8 to compile and run.

How to build

Extract the raisin-solution.zip file into any folder. It will create raisin-solution directory on extraction. Change directory to "raisin-solution". It contains pom.xml in it. Then run mvn command as shown below to build the application.

How to build				
\$> cd rais:	in-solution			
\$> dir				
11/26/2017	12:05 PM	2,655	pom.xml	
11/22/2017	09:18 AM	<dir></dir>	src	
11/26/2017	01:01 PM	<dir></dir>	target	

This will create "raisin-solution-1.0-SNAPSHOT-jar-with-dependencies.jar" file under raisin-solution/target folder.

```
How to build
$> cd target
$> dir
11/26/2017 01:00 PM
                        <DIR>
                                       archive-tmp
11/26/2017 01:01 PM
                        <DIR>
                                       classes
11/26/2017 01:00 PM
                        <DIR>
                                       generated-sources
11/26/2017 01:00 PM
                        <DIR>
                                       maven-status
11/26/2017 01:01 PM
                        <DIR>
                                       test-classes
11/26/2017 01:00 PM
                        12,315,576
raisin-solution-1.0-SNAPSHOT-jar-with-dependencies.jar
```

How to run

Go to the folder containing the "raisin-solution-1.0-SNAPSHOT-jar-with-dependencies.jar" file (raisin-solution/target).

First run the python web server and then run following command in another terminal.

How to run

- \$> cd target
- \$> java -jar raisin-solution-1.0-SNAPSHOT-jar-with-dependencies.jar

Log file "raisin-solution.log" will be created in the same folder from which above command is executed.