**Task 1 Results:**

"C:\Program Files\Java\jdk1.8.0\_102\bin\java" -Didea.launcher.port=7534 "-Didea.launcher.bin.path=C:\Program Files (x86)\JetBrains\IntelliJ IDEA 2016.2.4\bin" -Dfile.encoding=UTF-8 -classpath "C:\Program Files\Java\jdk1.8.0\_102\jre\lib\charsets.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\deploy.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\access-bridge-64.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\cldrdata.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\dnsns.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\jaccess.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\jfxrt.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\localedata.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\nashorn.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunec.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunjce\_provider.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunmscapi.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunpkcs11.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\zipfs.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\javaws.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jce.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jfr.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jfxswt.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jsse.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\management-agent.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\plugin.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\resources.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\rt.jar;D:\PyCharm\Assignment3\out\production\Assignment3;E:\IUB\Search\assignment 3\lucene4.10\lucene-core-4.10.1.jar;E:\IUB\Search\assignment 3\lucene4.10\lucene-analyzers-common-4.10.1.jar;E:\IUB\Search\assignment 3\lucene4.10\commons-lang3-3.3.1.jar;E:\IUB\Search\assignment 3\lucene4.10\commons-collections4-4.0.jar;E:\IUB\Search\jung\collections-generic-4.01.jar;E:\IUB\Search\jung\colt-1.2.0.jar;E:\IUB\Search\jung\concurrent-1.3.4.jar;E:\IUB\Search\jung\j3d-core-1.3.1.jar;E:\IUB\Search\jung\jung-3d-2.0.1.jar;E:\IUB\Search\jung\jung-3d-demos-2.0.1.jar;E:\IUB\Search\jung\jung-algorithms-2.0.1.jar;E:\IUB\Search\jung\jung-api-2.0.1.jar;E:\IUB\Search\jung\jung-graph-impl-2.0.1.jar;E:\IUB\Search\jung\jung-io-2.0.1.jar;E:\IUB\Search\jung\jung-jai-2.0.1.jar;E:\IUB\Search\jung\jung-jai-samples-2.0.1.jar;E:\IUB\Search\jung\jung-samples-2.0.1.jar;E:\IUB\Search\jung\jung-visualization-2.0.1.jar;E:\IUB\Search\jung\stax-api-1.0.1.jar;E:\IUB\Search\jung\vecmath-1.3.1.jar;E:\IUB\Search\jung\wstx-asl-3.2.6.jar;E:\IUB\Search\assignment 3\lucene4.10\analysis\common\lucene-analyzers-common-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\demo\lucene-demo-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\memory\lucene-memory-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\queryparser\lucene-queryparser-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\queries\lucene-queries-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\core\lucene-core-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\codecs\lucene-codecs-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\classification\lucene-classification-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\benchmark\lucene-benchmark-4.10.4.jar;C:\Program Files (x86)\JetBrains\IntelliJ IDEA 2016.2.4\lib\idea\_rt.jar" com.intellij.rt.execution.application.AppMain tasks.AuthorRank

Top 10 ranked authors are as following:

"5284" 0.006800860557230498

"875" 0.005836371476643228

"595" 0.005819851713131649

"654" 0.004858775168138037

"16297" 0.004515997707032358

"764" 0.0041997723355264235

"15668" 0.0041451944686108745

"588" 0.0038458179109517655

"9337" 0.003833248795693512

"9379" 0.003794261067786489

Process finished with exit code 0

**Task 2 Results:**

"C:\Program Files\Java\jdk1.8.0\_102\bin\java" -Didea.launcher.port=7534 "-Didea.launcher.bin.path=C:\Program Files (x86)\JetBrains\IntelliJ IDEA 2016.2.4\bin" -Dfile.encoding=UTF-8 -classpath "C:\Program Files\Java\jdk1.8.0\_102\jre\lib\charsets.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\deploy.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\access-bridge-64.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\cldrdata.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\dnsns.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\jaccess.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\jfxrt.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\localedata.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\nashorn.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunec.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunjce\_provider.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunmscapi.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\sunpkcs11.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\ext\zipfs.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\javaws.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jce.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jfr.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jfxswt.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\jsse.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\management-agent.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\plugin.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\resources.jar;C:\Program Files\Java\jdk1.8.0\_102\jre\lib\rt.jar;D:\PyCharm\Assignment3\out\production\Assignment3;E:\IUB\Search\assignment 3\lucene4.10\lucene-core-4.10.1.jar;E:\IUB\Search\assignment 3\lucene4.10\lucene-analyzers-common-4.10.1.jar;E:\IUB\Search\assignment 3\lucene4.10\commons-lang3-3.3.1.jar;E:\IUB\Search\assignment 3\lucene4.10\commons-collections4-4.0.jar;E:\IUB\Search\jung\collections-generic-4.01.jar;E:\IUB\Search\jung\colt-1.2.0.jar;E:\IUB\Search\jung\concurrent-1.3.4.jar;E:\IUB\Search\jung\j3d-core-1.3.1.jar;E:\IUB\Search\jung\jung-3d-2.0.1.jar;E:\IUB\Search\jung\jung-3d-demos-2.0.1.jar;E:\IUB\Search\jung\jung-algorithms-2.0.1.jar;E:\IUB\Search\jung\jung-api-2.0.1.jar;E:\IUB\Search\jung\jung-graph-impl-2.0.1.jar;E:\IUB\Search\jung\jung-io-2.0.1.jar;E:\IUB\Search\jung\jung-jai-2.0.1.jar;E:\IUB\Search\jung\jung-jai-samples-2.0.1.jar;E:\IUB\Search\jung\jung-samples-2.0.1.jar;E:\IUB\Search\jung\jung-visualization-2.0.1.jar;E:\IUB\Search\jung\stax-api-1.0.1.jar;E:\IUB\Search\jung\vecmath-1.3.1.jar;E:\IUB\Search\jung\wstx-asl-3.2.6.jar;E:\IUB\Search\assignment 3\lucene4.10\analysis\common\lucene-analyzers-common-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\demo\lucene-demo-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\memory\lucene-memory-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\queryparser\lucene-queryparser-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\queries\lucene-queries-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\core\lucene-core-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\codecs\lucene-codecs-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\classification\lucene-classification-4.10.4.jar;E:\IUB\Search\assignment 3\lucene4.10\benchmark\lucene-benchmark-4.10.4.jar;C:\Program Files (x86)\JetBrains\IntelliJ IDEA 2016.2.4\lib\idea\_rt.jar" com.intellij.rt.execution.application.AppMain tasks.AuthorRankWithQuery

Searching for: data mining

Top 10 ranked authors are as following:

"16297" 0.031119247059642398

"2430" 0.021948077541055225

"69331" 0.020863606258028165

"4836" 0.017948571331649933

"23255" 0.014363898307379979

"31637" 0.013324217548056272

"3673" 0.010525366262004227

"2340" 0.010439351859825629

"16317" 0.009386547295818835

"3695" 0.008496654122673131

Searching for: information retrieval

Top 10 ranked authors are as following:

"16297" 0.024991731524230766

"2430" 0.02431091577777257

"3695" 0.018423033218670885

"3673" 0.013180109368413465

"69331" 0.013019351640869616

"31637" 0.012749625047404704

"23255" 0.011482072190136782

"2427" 0.010437311815990665

"19294" 0.009679129846808859

"4836" 0.008956644571996544

Searching for: machine learning

Top 10 ranked authors are as following:

"2430" 0.01347842569298096

"16297" 0.011605805419819811

"4836" 0.01023349652269268

"3695" 0.009373911856172288

"3673" 0.009141847530023513

"924" 0.009100276202580687

"31637" 0.0078120377454994035

"69331" 0.006260851376559002

"9379" 0.006039265813864811

"2427" 0.005475831341812565

Process finished with exit code 0