SENG 480A: Summer 2017
Assignment 3 output
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1. Find the average rating for each user and movie
   Files: MovielensAvgReducer.java
            MovielensAvgMapper.java
            MovielensAvgCombiner.java
   Output sample:

2. Fine the average rating for each genre
   Files: MovielensGenreAvgReducer.java
            MovielensGenreAvgMapper.java
            MovielensGenreAvgReducer.java
            MovielensGenreAvg.java (change directory)
   Output sample:

3. Repeat 1 using Spark
   Files: SparkMovielensAvg.java

Output sample:

```
C:\Users\Yaxi\Desktop\assign3_hadoop_spark\SparkJava8Examples_post>more output_m
ovielens\part-00000
(m4427, 4.277777777777778)
(m1088, 3.358490566037736)
(m25920, 3.5)
(m5791, 3.9615384615384617)
(m64614, 3.8333333333333335)
(u539, 4.0)
(m8477, 4.25)
(m3516, 3.0625)
(m1889, 3.0)
(m33592, 2.5)
(m133419, 2.9166666666666665)
(m4280, 3.75)
(m114601, 2.75)
(m3656, 5.0)
(m100106, 4.5)
(u123, 3.757575757575758)
(m26547, 4.0)
(u481, 4.137614678899083)
(m103810, 3.0)
(m5785, 3.3181818181818183)
(m3969, 2.9565217391304346)
(m8917, 3.425)
(m8641, 3.514705882352941)
(m26303, 2.5)
(m118696, 3.1)
(m5483, 3.6)
(m3181, 3.8333333333333335)
(m4035, 4.0)
-- More (0%) --
```

4. Repeat 2 using Spark
   Files: SparkMovielensGenresAvg.java
   Output sample:

```
C:\Users\Yaxi\Desktop\assign3_hadoop_spark\SparkJava8Examples_post>more output_
ovielens\part-00000
(War, 3.8172139303482586)
(Fantasy, 3.518063244815614)
(Western, 3.5664225941422596)
(Musical, 3.5987928843710293)
(Horror, 3.3152430044182624)
(IMAX, 3.5711343472750317)
(Crime, 3.679638509774991)
(Animation, 3.636061588330632)
(Children, 3.4661866359447004)
(Sci-Fi, 3.4604295476732836)
(Comedy, 3.4460369221059275)
(Documentary, 3.813299232736573)
(Mystery, 3.6795409836065573)
(Thriller, 3.5185023771790807)
((no genres listed), 3.7777777777777777)
(Adventure, 3.5203933324249443)
(Romance, 3.556164666942491)
(Drama, 3.681779585269932)
(Film-Noir, 3.9557017543859647)
(Action, 3.4456128030751034)
```