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1) The versions of python , spark and scala are as below
   Python Version : 2.7 ,
   Spark version : 2.3.1 ,
   Scala : 2.11

2) For task 1 run the code using the following command

   ```
   spark-submit --class ModelBasedCF
   "/path/to/Parth_Vaghani_ModelBasedCF.jar"
   "/path/to/train_review.csv" "/path/to/test_review.csv"
   ```

   For task 2 run the code using the following command

   ```
   spark-submit "/path/to/Parth_Vaghani_UserBasedCF.py"
   "/path/to/train_review.csv" "/path/to/test_review.csv"
   ```

3) For Task 1 the parameters are
   >=0 and <1:28693
   >=1 and <2:13094
   >=2 and <3:2337
   >=3 and <4:301
   >=4 :35
   RMSE = 1.0789417495445968
   Time :34sec

   For Task 2 the parameters are
   >=0 and <1: 28825
   >=1 and <2: 13163
   >=2 and <3: 2730
   >=3 and <4: 473
   >= 44
   RMSE: 1.08786646922
   Time: 122.787189007