Name of the student:		**Roll No.**	
Practical Number:	9	**Date of Practical:**	
Relevant CO's	**At the end of the course students will be able to apply Big data analytics in real life applications.**		
Sign here to indicate that you have read all the relevant material provided before attempting this practical			**Sign:**

Practical grading using Rubrics

Indicator	**Very Poor**	**Poor**	**Average**	**Good**	**Excellent**
Timeline (2)	More than a session late (0)	NA	NA	NA	Early or on time (2)
Code design (2)	N/A	Very poor code design with no comments and indentation(0.5)	Poor code design with very comments and indentation (1)	Design with good coding standards (1.5)	Accurate design with better coding satndards (2)
Performance (4)	Unable to perform the experiment (0)	Able to partially perform the experiment (1)	Able to perform the experiment for certain use cases (2)	Able to perform the experiment considering most of the use cases (3)	Able to perform the experiment considering all use cases (4)
Postlab (2)	Incorrect answer(0)	N/A	Partially correct answer (1)	N/A	Fully correct answer (2)

Total Marks (10)	**Sign of instructor with date**

Practical

Course title: Big Data Analytics
Course term: 2019-2020
Instructor name: Saurabh Kulkarni

Problem Statement: To demonstrate use of recommendation system for movie rating prediction

Theory:

Code:

Write R code for recommendation system for given input
code for the problem:

PostLab:

Explain Content based recommendation systems

Answer for postlab question

Explain Collaborative filtering systems

Answer for postlab question