

LAB ASSIGNMENTS
PYTHON PROGRAMMING LAB
MCA 1st Year 1st Semester, 2023
Subject Code: MCA1152

Day 7

1. Create a variable `stationery` with a Pandas Series that looks like

```
Pencil 5 pc
Clip 10 small
Paper 2 ream
Eraser 2 pc
Name: Supplies, dtype: object
```
2. Load the csv dataset “Netflix TV Shows and Movies” into a DataFrame called `ratings`.
3. Select the `description` column from `ratings` and assign the result to the variable `desc`. What type of object is `desc`?
4. Select the first value from the `description` column of `ratings`, assigning it to variable `first_description`.
5. Select the first record from `ratings`, assigning it to the variable `first_row`.
6. Select the first 15 values from the `description` column in `ratings`, assigning the result to variable `first_descriptions`.
7. Select the records with index labels 1, 2, 4, 7, and 11, assigning the result to the variable `sample_ratings`.
8. Create a DataFrame `df` containing the `title`, `type`, `release_year`, and `age_certification` columns of the records with the index labels 0, 4, 50, and 200.
9. Create a DataFrame `df` containing the `title` and `release_year` columns of the first 50 records.
10. Create a DataFrame `show_ratings` containing ratings of shows.
11. Create a DataFrame `great_shows` containing shows with ratings more than 7.5.
12. Create a DataFrame `mini` containing movies with `runtime` less than an hour.
13. Create a DataFrame `my_age` containing movies that were released in your year of birth.
14. Create a DataFrame `my_movies` containing movies that were released in the year 2000, 2004, 2008 and 2012.
15. What is the mean, median and mode of the `imdb_score` column in the `ratings` DataFrame?
16. What release years are represented in the dataset (must not include duplicates)?
17. How often does each release year appear in the dataset?
18. What are the most common runtime of the movies in the dataset?
19. Which are the top three mostly voted movies?
20. What are the highest rated and least rated movies yearwise?
21. What combinations of runtime and rating are most common?
22. How many movies in the dataset are missing an age certification?
23. What are the most common age certifications in the dataset?