



**Progressive Education Society's**  
**Modern College of Engineering, Shivajinagar, Pune-05.**  
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)  
**Department of MCA**

**PRACTICAL SUBMISSION RECORD- A.Y. 2025-26**

<b>Class: SYMCA Division : A</b> <b>Semester: III</b>	<b>Course Code: MCA01604</b> <b>Course Name: Data Science Laboratory</b>	<b>Batch: S2</b>
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<b>CO No: CO605.2</b>	<b>Assignment No: 12</b>	

**Title : Read the file moviesData.csv to create a bar chart of critics\_score for the first 10 movies. Save the plot.**

**Code:**

```
# Load required library
library(ggplot2)
```

```
#1 Read your local CSV file
# (Replace with your actual path if different)
movies <- read.csv("csv_files/archive/movies.csv", stringsAsFactors = FALSE)
```

```
#2 View first few rows to confirm
head(movies)
colnames(movies)
```

```
#3 Extract first 10 movies
movies10 <- movies[1:10, ]
```

```
#4 Create bar chart using vote_average as the critics score
score_plot <- ggplot(movies10, aes(x = reorder(title, vote_average),
                                     y = vote_average,
                                     fill = vote_average)) +
  geom_col(color = "black") +
  coord_flip() +
  labs(title = "Average Vote (Critics Score) for First 10 Movies",
       x = "Movie Title",
       y = "Vote Average (Score)") +
  scale_fill_gradient(low = "lightblue", high = "steelblue") +
  theme_minimal(base_size = 12)
```

```
#5 Display the plot
```



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```
print(score_plot)
```

```
#6 Save the plot to a PNG file
ggsave("CriticsScore_BarChart.png",
      plot = score_plot,
      width = 10,
      height = 6,
      units = "in",
      dpi = 300)
```

```
cat("✓ Bar chart saved successfully as 'CriticsScore_BarChart.png' in:\n", getwd(), "\n")
score_plot <- ggplot(movies10, aes(x = reorder(title, vote_average),
                                   y = vote_average,
                                   fill = vote_average)) +
  geom_col(color = "black") +
  geom_text(aes(label = round(vote_average, 1)),
            hjust = -0.2, size = 3.5) +
  coord_flip() +
  labs(title = "Average Vote (Critics Score) for First 10 Movies",
       x = "Movie Title",
       y = "Vote Average (Score)") +
  scale_fill_gradient(low = "lightblue", high = "steelblue") +
  theme_minimal(base_size = 12)
```

**Output :**



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**Average Vote (Critics Score) for First 10 Movie**

