



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

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

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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LIC HISTORY INVESTIGATIVE

Average Vote (Critics Score) for First 10 Movie

