ASSIGNMENT 1 FML

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vamshidataset <-read.csv("C:/Users//vamsh//OneDrive//Documents//KENT SEM 01//FML//Assignment 01 FML//more #Following is the dataset that has been imported. The dataset represents imdb top 100 movies.

View(vamshidataset)

 $\textit{\#The data has been taken from \#https://www.kaggle.com/datasets/themrityunjaypathak/imdb-top-100-movies all the statement of the statement$

mean(vamshidataset\$imdb_rating)

[1] 8.348485

sd(vamshidataset\$imdb_rating)

[1] 0.3687717

#The above values represent descriptive statistics for a selection of quantitative variables. The above values show the mean and the standard deviation for the quantitative variable Latitude.

table(vamshidataset\$movie_name)

```
##
##
                                            12 Angry Men
##
##
                                              12 Monkeys
##
                                       12 Years a Slave
##
##
##
                                  2001: A Space Odyssey
##
                                       A Beautiful Mind
##
##
##
                                                    Alien
##
                                                   Aliens
##
##
##
                                                   Amélie
##
##
                                         American Beauty
##
##
                                          Apocalypse Now
```

1	##
As Good as It Gets	##
	##
Avanti!	##
Dools to the Future	##
Back to the Future	##
Plada Punnar	##
Blade Runner 1	##
Braveheart	## ##
bravenear t	##
Casablanca	##
	##
Children of Men	##
onitation of hen	##
Chinatown	##
1	##
Citizen Kane	##
1	##
City Lights	##
1	##
City of God	##
1	##
Cool Hand Luke	##
1	##
Die Hard	##
1	##
District 9	##
1	##
Django Unchained	##
1	##
Eternal Sunshine of the Spotless Mind	##
1	##
Fargo	##
1	##
Fight Club	##
1	##
Forrest Gump	##
1	##
Full Metal Jacket	##
1	##
Gone with the Wind	##
1	##
Goodfellas	##
1	##
Heat	##
1	##
Inception	##
1	##
Indiana Jones and the Last Crusade	##
Tudions Tours and the Daidons of the Lort And	##
Indiana Jones and the Raiders of the Lost Ark	##
Inglauriana Pagtanda	##
Inglourious Basterds	##

1	##
Interstellar	##
1	##
Kill Bill: Vol. 1	##
1	##
L.A. Confidential	##
1	##
Léon: The Professional	##
life To Deputiful	##
Life Is Beautiful 1	##
Life of Pi	## ##
1	##
Lost in Translation	##
1050 in italistation	##
Mad Max: Fury Road	##
1	##
- Magnolia	##
1	##
Memento	##
1	##
Modern Times	##
1	##
Mystic River	##
1	##
No Country for Old Men	##
1	##
North by Northwest	##
1	##
O Brother, Where Art Thou?	##
1	##
One Flew Over the Cuckoo's Nest	##
1	##
Pulp Fiction	##
Dain Man	## ##
Rain Man 1	##
Ratatouille	##
1	##
Rear Window	##
1	##
Requiem for a Dream	##
1	##
Saving Private Ryan	##
1	##
Schindler's List	##
1	##
Se7en	##
1	##
Singin' in the Rain	##
1	##
Slumdog Millionaire	##
1	##
Some Like It Hot	##

```
##
##
                  Star Wars: Episode IV - A New Hope
##
      Star Wars: Episode V - The Empire Strikes Back
##
##
          Star Wars: Episode VI - Return of the Jedi
##
##
          Star Wars: Episode VII - The Force Awakens
##
##
                                           Taxi Driver
##
##
                           Terminator 2: Judgment Day
##
                         The Bridge on the River Kwai
##
##
##
                                       The Dark Knight
##
##
                                The Dark Knight Rises
##
##
                                          The Departed
##
##
                                         The Godfather
##
                               The Godfather: Part II
##
##
##
                       The Good, the Bad and the Ugly
##
                  The Hobbit: The Desolation of Smaug
##
##
                                           The Insider
##
##
##
                                     The King's Speech
##
##
                                         The Lion King
##
##
                                  The Lives of Others
##
   The Lord of the Rings: The Fellowship of the Ring
##
##
       The Lord of the Rings: The Return of the King
##
               The Lord of the Rings: The Two Towers
##
                                            The Matrix
##
##
                                           The Pianist
##
##
##
                                             The Piano
##
##
                                          The Prestige
##
                             The Shawshank Redemption
##
##
                                           The Shining
##
```

```
##
##
                             The Silence of the Lambs
##
                                             The Thing
##
##
##
                                         The Third Man
##
##
                                   The Usual Suspects
##
##
                                 To Have and Have Not
##
##
                                         Trainspotting
##
##
                                        V for Vendetta
##
                                                     1
##
                                               Vertigo
##
str(vamshidataset$category)
    chr [1:99] "R" "R" "PG" "R" "PG" "R" "PG" "PG-13" "PG-13" "PG-13" "R" "R" ...
#The above values represent categorical descriptive analysis of the variables.
```

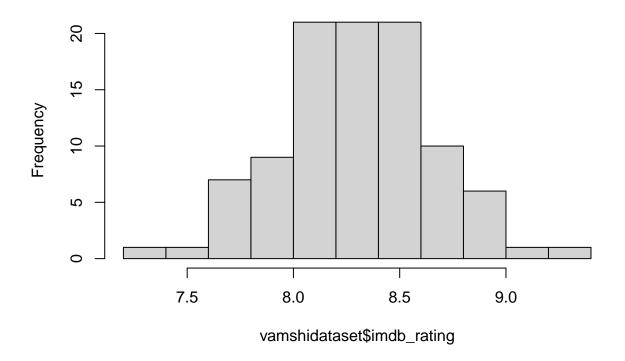
vamshidataset_transformed <- (vamshidataset\$imdb_rating - mean(vamshidataset\$imdb_rating)/sd(vamshidataset
vamshidataset_transformed</pre>

```
## [1] -13.43863 -14.03863 -13.93863 -13.33863 -14.23863 -14.13863 -13.93863 ## [8] -14.23863 -13.63863 -14.03863 -13.63863 -14.23863 -14.23863 -13.63863 ## [15] -13.83863 -13.83863 -14.13863 -14.43863 -14.53863 -14.03863 -14.13863 -14.13863 -14.43863 -14.43863 -14.43863 -14.43863 -14.43863 -14.43863 -14.43863 -14.43863 -14.43863 -14.43863 -14.43863 -14.13863 +## [29] -13.73863 -14.43863 -14.13863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.33863 -14.3
```

 ${\it \#Transformation of variables has been done above.}$

hist(vamshidataset\$imdb_rating)

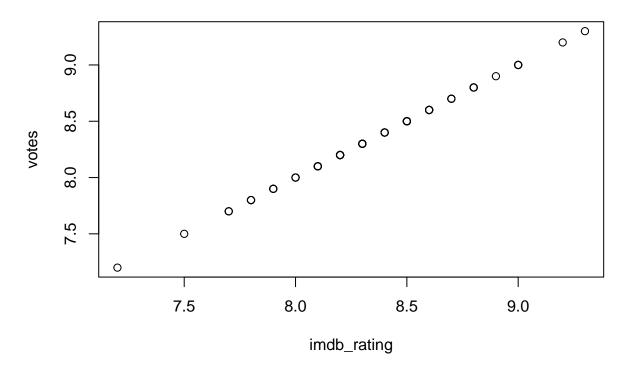
Histogram of vamshidataset\$imdb_rating



 $\textit{\#The above graphical representation is a histogram.} \quad \textit{The selected variable is the Elevation}. \\$

```
x <- vamshidataset$imdb_rating
y <- vamshidataset$imdb_rating
plot(x,y, main = "imdb_rating and votes ", xlab = "imdb_rating", ylab = "votes")</pre>
```

imdb_rating and votes



#The above graphical representation is a scatterplot.
#The selected variables are imdb_rating and votes