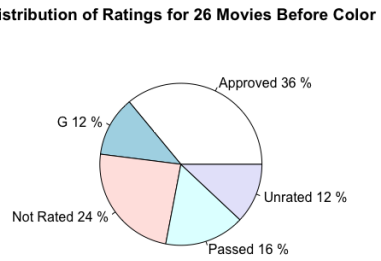
Graphics for Qualitative/Categorical DATA (MOL4)

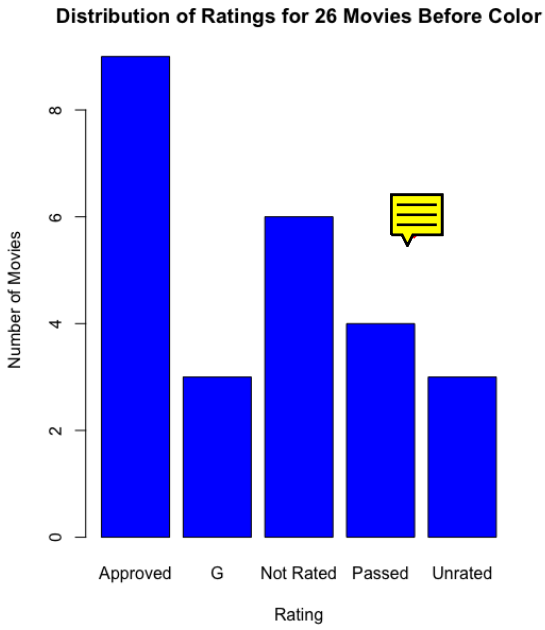
1. Make a Pie Graph using the file imdb_before_color for the variable content_rating which will include:
   a. The title "Distribution of Ratings for 26 Movies Before Color" **(1 pt)**
   b. Label to include the rating and percent **(2 pt)**
   c. Copy and paste your code (0.5 pt) and the resultant Pie graph here (0.5 pt):
   Results:

```
Console  Terminal  Background Jobs
R 4.2.3 · ~/Downloads/Working directory/
> library(readxl)
> imdb_before_color<-read_excel("imdb_before_color.xlsx")

> View(imdb_before_color)
> imdb_before_color$content_rating=as.factor(imdb_before_color$content_rating)
> pie(percent, label = lbl,main = "Distribution of Blood Type for Sample of 50 Patients")
> t = table(imdb_before_color$content_rating)
> t

 Approved         G Not Rated    Passed   Unrated
        9         3         6         4         3
> percent=100*t/sum(t)
> format_with_percent=format(percent,digits=3)
> lbl=paste(c("Approved","G","Not Rated","Passed","Unrated"), format_with_percent,"%",sep
=" ")
> pie(percent, label = lbl,main = "Distribution of Ratings for 26 Movies Before Color")
```



2. Make a Frequency Bar Graph using the file imdb_before_color for the variable content_rating which will include:
   a. The title "Distribution of Ratings for 26 Movies Before Color" **(0.5 pt)**
   b. X Label to include the rating **(0.5 pt)**
   c. Y Label, "Number of Movies) **(0.5 pt)**
   d. Make the color blue **(0.5 pt)**
   e. Copy and paste your code (0.5 pt) and the resultant Frequency Bar graph here (0.5 pt):
   Results:

```
Console  Terminal  Background Jobs
R 4.2.3 · ~/Downloads/Working directory/
> imdb_before_color$content_rating=as.factor(imdb_before_color$content_rating)
> t = table(imdb_before_color$content_rating)
> t

 Approved         G Not Rated    Passed
        9         3         6         4
  Unrated
        3
> barplot(t,main="Distribution of Ratings for 26 Movies Before Color",xlab="Rating",ylab="Number of Movies",
col="blues9")
Error in rect(y1, x1, y2, x2, ...) : invalid color name 'blues9'
> barplot(t,main="Distribution of Ratings for 26 Movies Before Color",xlab="Rating",ylab="Number of Movies",
col="blue9")
Error in rect(y1, x1, y2, x2, ...) : invalid color name 'blue9'
> barplot(t,main="Distribution of Ratings for 26 Movies Before Color",xlab="Rating",ylab="Number of Movies",
col="blue")
>
```



3. Make a Relative Frequency Bar Graph using the file imdb_before_color for the variable content_rating which will include:
    a. The title “Distribution of Ratings for 26 Movies Before Color” **(0.5 pt)**
    b. X Label to include the rating **(0.5 pt)**
    c. Y Label, “Percent of Movies) **(0.5 pt)**
    d. Make the color blue **(0.5 pt)**
    e. Copy and paste your code (0.5 pt) and the resultant Relative Frequency Bar graph here (0.5 pt):
    Results:

```
Console   Terminal ×   Background Jobs ×
R 4.2.3 · ~/Downloads/Working directory/
> t = table(imdb_before_color$content_rating)
> t

 Approved         G Not Rated    Passed   Unrated
        9         3         6         4         3
> percent=100*t/sum(t)
> barplot(percent,main="Distribution of Ratings for 26 Movies Before Color",xlab="Rating",ylab="Percent of Movies",
col="blue")
>
```