Graph Questions

1. Declare a vector having 4 numbers (8, 4, 5, 3) which indicate the movie preferences of your 20 friends. Comedy, Action, Romance, Science or Fiction - the type of movie they want to watch today.   Prepare a Pie chart to show the results.
    a. Show the pie slices in 4 attractive colors
    b. Give count against the slices
    c. Movie type in legend
    d. Order the pie slices in clockwise direction.
    e. Give Heading.

2. Draw a bar chart for the above data. Provide Main Heading, labels for X Axis and Y Axis

3. ABC corporation manufactures and sales 3 products A, B & C. Draw a stacked bar chart to show the annual product sales of the company. The sales for the 4 quarters are to be displayed in the X axis. Use proper legends to show the sales of the 3 products.

4. Draw a histogram showing the **Miles/gallon value distributions among the various car models in the mtcars data (Motor Trend Car Road Tests) results.**

5. Create a graph using the basic steps plot.new()
    a. Draw x axis and y axis
    b. Mark 5 random points (declare them as X and Y vectors)
    c. Draw line joining them
    d. Draw a horizontal line touching the topmost point
    e. Draw a vertical line touching the rightmost point

6. Let the following be the response of the usage of 2 drugs A & B against dosage. Draw Line chart showing the responses, with both data in the same graph

    drugA <- c(16, 20, 27, 40, 60)
    drugB <- c(15, 18, 25, 31, 40)

    hint(use plot function to plot the response of drugA and lines function to plot drug B in the same graph)

7. Use the built in data frame airquality for the following question.
   Draw boxplot to show the distribution of temperature values against month.

8. Use the built in data frame   iris for the following question
   Draw scatter diagram showing the distribution of Sepal.Length & Sepal.Width values   (hint:use plot() function to draw scatterplot)

9. Use the built in data frame iris for the following question.
   Draw a Scatterplotmatrix for comparing the values of Sepal.Length, Sepal.Width, Petal.Length & Petal.Width
   (hint: use pairs() function)