

CSP203: Software Tools & Technologies Lab

Assignment-3

Due Date: 11-November-2024 11:59 PM

Maximum Points: 100

Instructions for Submission:

1. Prepare a zip file of your solution, name it as <Roll_no>_Assignment-3.zip and submit it through Canvas.
2. Your zip file should contain all the plotting scripts, data, plots and the README file. Upon execution, the corresponding plots should be generated.
3. README file carries 5 Marks.

Gnuplot:

1. Download some sample sales dataset from [here](#).
2. Write gnuplot scripts to visualise the data as per the following.
 - a. Read the total profit of all months and show it using a line plot.
 - b. Plot all the products for each month using linespoints. Each line should correspond to the product.
 - c. Show the number of sales of all months for **facecream** using histogram. The histogram colour should be red.
 - d. Plot the product that has the highest number of sales in a year. Show the plot for the corresponding product for each month using linespoints.
 - e. Calculate total sale data for the year for each product and show it using a Pie chart.
 - f. Plot all the products for each month using a stacked plot. X-axis should have product and the Y axis should be the number of sales. The stack should contain the data for each month.
 - g. Compare **shampoo** and **moisturizer** for each month using histogram plot.
 - h. Plot the top 3 products that have the highest sales. Show the plots using linespoint for each month.
 - i. Show sale data for **June** for each product using a Pie chart.