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piechart

```
set terminal pdf
set output "e.pdf"
set title "Piechart"
set key out top box
set style fill solid 1.0 border -1
a1 = 0.123*360
a2 = a1+0.066*360
a3 = a2+0.249*360
a4 =a3+0.406*360
a5= a4+0.091*360
a6 = a5+0.065*360
set angles degree
set xrange[-1.5:1.5]
set yrange[-1.5:1.5]
set size square
set obj 1 circle arc [0:a1] fc rgb "red"
set obj 2 circle arc [a1:a2] fc rgb "orange"
set obj 3 circle arc [a2:a3] fc rgb "yellow"
set obj 4 circle arc [a3:a4] fc rgb "green"
set obj 5 circle arc [a4:a5] fc rgb "brown"
set obj 6 circle arc [a5:a6] fc rgb "blue"
set obj 1 circle at 0,0 size 1 front
set obj 2 circle at 0,0 size 1 front
set obj 3 circle at 0,0 size 1 front
set obj 4 circle at 0,0 size 1 front
set obj 5 circle at 0,0 size 1 front
set obj 6 circle at 0,0 size 1 front
plot NaN title 'Facecream' with lines lc rgb "red", \
    NaN title 'Facewash' with lines lc rgb "orange", \
    NaN title 'Toothpaste' with lines lc rgb "yellow", \
    NaN title 'Bathingsoap' with lines lc rgb "green", \
    NaN title 'Shampoo' with lines lc rgb "brown", \
    NaN title 'Moisturizer' with lines lc rgb "blue"
```

linespoints

```
set datafile separator ","
set terminal pdf
set output "a.pdf"
set title "Total Monthly Profit"
set xlabel "Months"
set ylabel "Profit"
set style data linespoints
set grid
set key out top box
set xrange [0:12]
set yrange [0:500000]
plot 'company_sales_data.csv' u 9:xtic(1) lt 5 lc "blue" title "TP"
```

2nd

```
set datafile separator ","
set terminal pdf
set output "b.pdf"
set title "All Products"
set xlabel "Months"
set ylabel "Product"
set style data linespoints
set key out top box
plot 'company_sales_data.csv' u 1:2 title "Facecream" lt 5 lc
"orange", \
    'company_sales_data.csv' u 1:3 title "Facewash" lt 5 lc
"red", \
    'company_sales_data.csv' u 1:4 title "Toothpaste" lt 5 lc
"green", \
    'company_sales_data.csv' u 1:5 title "Bathingsoap" lt 5 lc
"blue", \
    'company_sales_data.csv' u 1:6 title "Shampoo" lt 5 lc
"black", \
    'company_sales_data.csv' u 1:7 title "Moisturizer" lt 5 lc
"pink"
```

q6

```
set term pdf
set output 'ques6.pdf'
set title 'All sales data product-wise'
set xlabel 'Products'
set ylabel 'Sales'
set key out top box
set style histogram columnstacked gap 2
set style data histogram
set boxwidth 0.6
set style fill solid
set xtics rotate by -45
plot 'data.dat' using 2:xtic(1) title columnheader(2), "
using 3 title columnheader(3)," using 4 title
columnheader(4)," using 5 title columnheader(5),"
using 6 title columnheader(6)," using 7 title
columnheader(7)
```

```
#!/bin/bash

# File to store the data
DATA_FILE="marks.data"

# Initialize the data file with the header
echo "Course Student1 Student2 Student3" > "$DATA_FILE"

# Define course codes (you can adjust these as needed)
courses=("CS100" "CS101" "CS102" "CS103" "CS104")

echo "Enter marks for each student in 5 courses."

# Loop through each course to get marks for each student
for course in "${courses[@]}"; do
    # Initialize a line with the course ID
    line="$course"

    # Prompt user to enter marks for each student
    for student in {1..3}; do
        read -p "Enter marks for Student${student} in $course: " marks
        line="$line $marks"
    done

    # Append the line to the data file
    echo "$line" >> "$DATA_FILE"
done

echo "Data saved to $DATA_FILE"
```