***Sales product -Variance***

import java.util.ArrayList;

import java.util.List;

public class SalesAnalysis {

private static final String[] PRODUCTS = {"Tea", "Coffee", "GreenTea", "LemonTea", "Soda", "Limca"};

private static final double[] SALES\_2021 = {100.0, 129.0, 140.0, 167.0, 267.0, 873.0};

private static final double[] SALES\_2022 = {120.0, 234.0, 168.0, 345.0, 987.0, 983.0};

public static void main(String[] args) {

List<Product> products = new ArrayList<>();

for (int i = 0; i < PRODUCTS.length; i++) {

products.add(new Product(PRODUCTS[i], SALES\_2021[i], SALES\_2022[i]));

}

System.out.println("Product\t\tSales2021\tSales2022\tVariance\tVariancePct\tTotal");

for (Product p : products) {

System.out.printf("%s\t\t%.2f\t\t%.2f\t\t%.2f\t\t%.2f%%\t\t%.2f\n",

p.name, p.sales2021, p.sales2022, p.variance(), p.variancePct(), p.total());

}

}

static class Product {

private final String name;

private final double sales2021;

private final double sales2022;

Product(String name, double sales2021, double sales2022) {

this.name = name;

this.sales2021 = sales2021;

this.sales2022 = sales2022;

}

double variance() {

return sales2022 - sales2021;

}

double variancePct() {

return (sales2022 - sales2021) / sales2021 \* 100;

}

double total() {

return sales2021 + sales2022;

}

}

}

***Output-***

Product Sales2021 Sales2022 Variance VariancePct Total

Tea 100.00 120.00 20.00 20.00% 220.00

Coffee 129.00 234.00 105.00 81.40% 363.00

GreenTea 140.00 168.00 28.00 20.00% 308.00

LemonTea 167.00 345.00 178.00 106.59% 512.00

Soda 267.00 987.00 720.00 269.66% 1254.00

Limca 873.00 983.00 110.00 12.60% 1856.00