TEST

Question 1

```dart
import 'dart:io';

void main() {
 // Ask for inputs
 stdout.write("Enter total bill amount: ");
 double bill = double.parse(stdin.readLineSync()!);

 stdout.write("Enter number of people: ");
 int people = int.parse(stdin.readLineSync()!);

 stdout.write("Enter tip percentage: ");
 double tipPercent = double.parse(stdin.readLineSync()!);
Enter total bill amount: 2000
Enter number of people: 25
Enter tip percentage: 5

Tip amount: $100.00
Total amount (with tip): $2100.00
Amount per person: $84.00

 // Calculations
 double tip = bill * tipPercent / 100;
 double total = bill + tip;
 double perPerson = total / people;

 // Output results
 print("\nTip amount: \$${tip.toStringAsFixed(2)}");
 print("Total amount (with tip): \$${total.toStringAsFixed(2)}");
 print("Amount per person: \$${perPerson.toStringAsFixed(2)}");
}
```

Output

Enter total bill amount: 2000
Enter number of people: 25
Enter tip percentage: 5

Tip amount: $100.00

Total amount (with tip): $2100.00
Amount per person: $84.00

Question 3

```
void main() {
 Map<String, double> groceryItems = {
    'Milk': 55.0,
    'Bread': 30.0,
    'Eggs': 80.0,
    'Apples': 120.0,
    'Rice': 450.0,
    'Chicken': 300.0,
    'Potatoes': 70.0,
 };

 double totalBill = 0.0;
 groceryItems.forEach((item, price) {
   totalBill += price;
 });

 double discountPercentage = 0.0;
 if (totalBill < 500) {
   discountPercentage = 0.05;
 } else if (totalBill >= 500 && totalBill < 1000) {
   discountPercentage = 0.10;
 } else if (totalBill >= 1000) {
   discountPercentage = 0.15;
 }

 double discountAmount = totalBill * discountPercentage;
 double finalBill = totalBill - discountAmount;

 print("--- Grocery Bill ---");
 groceryItems.forEach((item, price) {
   print("${item}: \$${price.toStringAsFixed(2)}");
 });
 print("--------------------");
 print("Total before discount: \$${totalBill.toStringAsFixed(2)}");
 print("Discount amount: \$${discountAmount.toStringAsFixed(2)}");
 print("Final bill after discount: \$${finalBill.toStringAsFixed(2)}");
```

```
}
```

Output

--- Grocery Bill ---
Milk: $55.00
Bread: $30.00
Eggs: $80.00
Apples: $120.00
Rice: $450.00
Chicken: $300.00
Potatoes: $70.00

Total before discount: $1105.00
Discount amount: $165.75
Final bill after discount: $939.25