3. Grocery store discount calculator

Input:

```
void main() {
final Map<String, double> itemPrices = {
   'Rice': 90.00,
   'Dal': 80.00,
   'Flour': 75.00,
  'Oil': 50.00,
  'Milk': 55.00,
  'Sugar': 45.00,
 };
double totalBeforeDiscount = 0.0;
itemPrices.forEach((_, price) {
  totalBeforeDiscount += price;
 });
double discountPercentage;
if (totalBeforeDiscount < 500.00) {</pre>
  discountPercentage = 5.0;
} else if (totalBeforeDiscount >= 500.00 && totalBeforeDiscount <</pre>
1000.00) {
  discountPercentage = 10.0;
} else {
  discountPercentage = 15.0;
 final double discountAmount = totalBeforeDiscount *
(discountPercentage / 100.0);
 final double finalBill = totalBeforeDiscount - discountAmount;
print('--- Itemized Bill ---');
itemPrices.forEach((item, price) {
  print('${item.padRight(12)}: \$${price.toStringAsFixed(2)}');
 });
print('----');
print('Total before discount:
$${totalBeforeDiscount.toStringAsFixed(2)}');
```

```
print('Discount (${discountPercentage.toStringAsFixed(0)}%):

\$${discountAmount.toStringAsFixed(2)}');

print('Final bill after discount: \$${finalBill.toStringAsFixed(2)}');
}
```

Output:

--- Itemized Bill --Rice : \$90.00
Dal : \$80.00
Flour : \$75.00
Oil : \$50.00
Milk : \$55.00
Sugar : \$45.00

Total before discount: \$395.00

Discount (5%): \$19.75

Final bill after discount: \$375.25

4. Ride fare estimator

Input:

```
class Ride {
final double distance;
final double ratePerKm;
final bool peakHour;
Ride({
  required this.distance,
  required this.ratePerKm,
  this.peakHour = false,
 });
double calculateFare() {
  final double baseFare = distance * ratePerKm;
  if (peakHour) {
    return baseFare * 1.20;
  return baseFare;
roid main() {
final List<Ride> rides = [
  Ride (distance: 10.5, ratePerKm: 2.50, peakHour: false),
  Ride (distance: 5.0, ratePerKm: 2.50, peakHour: true),
```

```
Ride(distance: 25.3, ratePerKm: 2.50, peakHour: false),
  Ride(distance: 12.0, ratePerKm: 2.50, peakHour: true),
];

double totalEarnings = 0.0;

print(' Ride Fare Estimates ');
for (int i = 0; i < rides.length; i++) {
  final ride = rides[i];
  final double fare = ride.calculateFare();
  totalEarnings += fare;

print(
  'Ride ${i + 1}: Distance = ${ride.distance.toStringAsFixed(1)} km,

  'Peak Hour = ${ride.peakHour ? 'Yes' : 'No'}, '
  'Fare = \$${fare.toStringAsFixed(2)}',
  );
}

print('Total earnings for all rides:
\$${totalEarnings.toStringAsFixed(2)}');
}</pre>
```

Output:

Ride Fare Estimates

Ride 1: Distance = 10.5 km, Peak Hour = No, Fare = \$26.25 Ride 2: Distance = 5.0 km, Peak Hour = Yes, Fare = \$15.00 Ride 3: Distance = 25.3 km, Peak Hour = No, Fare = \$63.25 Ride 4: Distance = 12.0 km, Peak Hour = Yes, Fare = \$36.00 Total earnings for all rides: \$140.50