

CODE

```
using System;
using System.Collections.Generic;
public class Item
{
    public string Name;
    public double Price;

    public Item(string name, double price)
    {
        Name = name;
        Price = price;
    }
}

public class ItemCollection
{
    protected List<Item> Items = new List<Item>();

    public void Add(Item item) => Items.Add(item);

    public Item Get(int index)
    {
        if (index >= 0 && index < Items.Count)
            return new Item(Items[index].Name, Items[index].Price);
        return null;
    }

    public void Display(string title)
    {
        Console.WriteLine($"\\n{title}:");
        double total = 0;
        for (int i = 0; i < Items.Count; i++)
        {
            Console.WriteLine($"{i + 1}. {Items[i].Name} - ₹{Items[i].Price}");
            total += Items[i].Price;
        }
        if (title.ToLower().Contains("cart"))
            Console.WriteLine($"Total: ₹{total}");
    }
}
```

```

}

public class Cart : ItemCollection
{
    public void AddToCart(Item item)
    {
        Add(item);
        Console.WriteLine($"Added to cart: {item.Name} - ₹{item.Price}");
    }

    public void ShowCart(string name) => Display($"{name}'s Cart");
}

public class Shop
{
    public ItemCollection Inventory = new ItemCollection();

    public Shop()
    {
        Inventory.Add(new Item("Chips", 50));
        Inventory.Add(new Item("Pen", 20));
        Inventory.Add(new Item("Water Bottle", 20));
        Inventory.Add(new Item("Juice", 200));
        Inventory.Add(new Item("Books", 250));
        Inventory.Add(new Item("Jam", 90));
    }

    public void ShowInventory() => Inventory.Display("Shop Inventory");

    public Item GetItem(int index) => Inventory.Get(index);
}

public class Customer
{
    public string Name;
    public Cart Cart = new Cart();

    public Customer(string name) => Name = name;

    public void Add(Item item) => Cart.AddToCart(item);

    public void ShowCart() => Cart.ShowCart(Name);
}

```

```
}
```

IN PROGRAM.CS

```
class Program
{
    static void Main()
    {
        Shop shop = new Shop();
        Customer customer = new Customer("Anaghaa");

        shop.ShowInventory();

        Console.WriteLine("\nEnter item numbers to add to cart (comma-separated): ");
        string input = Console.ReadLine();

        foreach (var entry in input.Split(','))
        {
            if (int.TryParse(entry.Trim(), out int index))
            {
                var item = shop.GetItem(index - 1);
                if (item != null)
                    customer.Add(item);
            }
        }

        customer.ShowCart();
    }
}
```

OUTPUT

anaghaapatil@Anaghaas-MacBook-Pro dotnet_study % clear

anaghaapatil@Anaghaas-MacBook-Pro dotnet_study % dotnet run

Shop Inventory:

1. Chips - ₹50
2. Pen - ₹20

3. Water Bottle - ₹20
4. Juice - ₹200
5. Books - ₹250
6. Jam - ₹90

Enter item numbers to add to cart (comma-separated):

1,2,5,4

Added to cart: Chips - ₹50

Added to cart: Pen - ₹20

Added to cart: Books - ₹250

Added to cart: Juice - ₹200

Anaghaha's Cart:

1. Chips - ₹50

2. Pen - ₹20

3. Books - ₹250

4. Juice - ₹200

Total: ₹520

anaghaapatil@Anaghaas-MacBook-Pro dotnet_study %