

Question 5:

Console Application

Code:

```
using System;
```

```
class SalesTransaction
```

```
{
```

```
    private string name;
```

```
    private double salesAmount;
```

```
    private double commission;
```

```
    private readonly double commissionRate;
```

```
    public SalesTransaction(string name, double salesAmount, double rate)
```

```
    {
```

```
        this.name = name;
```

```
        this.salesAmount = salesAmount;
```

```
        this.commissionRate = rate;
```

```
        this.commission = salesAmount * rate;
```

```
    }
```

```
    public SalesTransaction(string name, double salesAmount)
```

```
    {
```

```
        this.name = name;
```

```
        this.salesAmount = salesAmount;
```

```
        this.commissionRate = 0;
```

```
        this.commission = 0;
```

```
    }
```

```
    public SalesTransaction(string name)
```

```
    {
```

```
    this.name = name;

    this.salesAmount = 0;

    this.commissionRate = 0;

    this.commission = 0;
}
```

```
public static SalesTransaction operator +(SalesTransaction t1, SalesTransaction t2)
{
    return new SalesTransaction(
        t1.name + " & " + t2.name,
        t1.salesAmount + t2.salesAmount,
        0
    );
}
```

```
public void Display()
{
    Console.WriteLine($"Name: {name}");
    Console.WriteLine($"Sales Amount: {salesAmount:C}");
    Console.WriteLine($"Commission Rate: {commissionRate:P}");
    Console.WriteLine($"Commission: {commission:C}");
    Console.WriteLine("-----");
}
}
```

```
class Program
{
    static void Main(string[] args)
    {
        SalesTransaction t1 = new SalesTransaction("Alice", 5000, 0.10);
        SalesTransaction t2 = new SalesTransaction("Bob", 3000);
    }
}
```

```
SalesTransaction t3 = new SalesTransaction("Charlie");
```

```
Console.WriteLine("Individual Sales Transactions:\n");
```

```
t1.Display();
```

```
t2.Display();
```

```
t3.Display();
```

```
SalesTransaction total = t1 + t2;
```

```
Console.WriteLine("Combined Sales Transaction:\n");
```

```
total.Display();
```

```
Console.ReadLine();
```

```
}
```

```
}
```



```
Program.cs* X
Question 5
SalesTransaction
operator +(SalesTransaction t1, SalesTransaction t2)

this.commission = 0;
}

1 reference
public static SalesTransaction operator +(SalesTransaction t1, SalesTransaction t2)
{
    return new SalesTransaction(
        t1.name + " & " + t2.name,
        t1.salesAmount + t2.salesAmount,
        0
    );
}

4 references
public void Display()
{
    Console.WriteLine($"Name: {name}");
    Console.WriteLine($"Sales Amount: {salesAmount:C}");
    Console.WriteLine($"Commission Rate: {commissionRate:P}");
    Console.WriteLine($"Commission: {commission:C}");
    Console.WriteLine("-----");
}

0 references
class Program
{
    0 references
    static void Main(string[] args)
    {
        SalesTransaction t1 = new SalesTransaction("Alice", 5000, 0.10);
        SalesTransaction t2 = new SalesTransaction("Bob", 3000);
        SalesTransaction t3 = new SalesTransaction("Charlie");

        Console.WriteLine("Individual Sales Transactions:\n");
        t1.Display();
        t2.Display();
        t3.Display();

        SalesTransaction total = t1 + t2;

        Console.WriteLine("Combined Sales Transaction:\n");
        total.Display();

        Console.ReadLine();
    }
}
```

```
C:\Users\DELL\Downloads\Gundo programming\Question4\Question 5\Question 5\bin\Debug\net8.0\Question 5.exe
Individual Sales Transactions:
Name: Alice
Sales Amount: R5 000,00
Commission Rate: 10,00%
Commission: R500,00
-----
Name: Bob
Sales Amount: R3 000,00
Commission Rate: 0,00%
Commission: R0,00
-----
Name: Charlie
Sales Amount: R0,00
Commission Rate: 0,00%
Commission: R0,00
-----
Combined Sales Transaction:
Name: Alice & Bob
Sales Amount: R8 000,00
Commission Rate: 0,00%
Commission: R0,00
-----
```