

Explain the concept of aggregation in object-oriented programming using the given C# code as an example. Describe how the classes Address and Employee demonstrate aggregation, and provide an explanation of the relationship between them. Additionally, discuss the significance of aggregation in building modular and reusable code.

```
using System;
public class Address
{
    public string addressLine, city, state;
    public Address(string addressLine, string city, string state)
    {
        this.addressLine = addressLine;
        this.city = city;
        this.state = state;
    }
}
public class Employee
{
    public int id;
    public string name;
    public Address adrobject; //Employee HAS-A Address
    public Employee(int id, string name, Address address)
    {
        this.id = id;
        this.name = name;
        this.adrobject = address;
    }
    public void display()
    {
        Console.WriteLine(id + " " + name + " " + adrobject.addressLine + " " + adrobject.city + " " + adrobject.state);
    }
}
public class TestAggregation
{
    public static void Main(string[] args)
    {
        Address a1 = new Address("G-13, Sec-3", "Noida", "UP");
```

```
Employee e1 = new Employee(1,"Sudharsan",a1);  
e1.display();  
}  
}
```