//partial class:one class is divided into multiple files

**Partial demo**

**Class1.cs**

namespace partialdemo\_pre

{

partial class Employee

{

int empno;

string empname;

double salary;

}

}

**Class2.cs**

namespace partialdemo\_pre

{

partial class Employee

{

public Employee(int eno,string enm,double sal)

{

empno=eno;

empname=enm;

salary = sal;

}

}

}

**Class3.cs**

namespace partialdemo\_pre

{

partial class Employee

{

public void show()

{

Console.WriteLine("Employee Number:" + empno);

Console.WriteLine("Employee Name:"+empname);

Console.WriteLine("Emplyee Salary:" + salary);

}

}

}

**Program.cs**

namespace partialdemo\_pre

{

internal class Program

{

static void Main(string[] args)

{

Employee e = new Employee(101,"ram",45000);

e.show();

Console.ReadKey();

}

}

}

**Nullable Demo**

namespace nullabledemo\_pre

{

class Accenture

{

}

internal class Program

{

static void Main(string[] args)

{

string s = null;

Accenture obj = null;

// Nullable<int> num = null; //nullable type

int ? num = null;

//Console.WriteLine(num);

if(num.HasValue)

Console.WriteLine(num.Value);

Console.WriteLine(num.GetValueOrDefault());

Console.ReadKey();

}

}

}

**Extension demo**

using System.ComponentModel.DataAnnotations;

using System.Runtime.CompilerServices;

namespace extensiondemo\_pre

{

class Accenture

{

}

static class Employee

{

static public void show(this Accenture obj)

{

Console.WriteLine("show is method of accenture class");

}

static public void display(this Accenture obj,int num)

{

Console.WriteLine("display is method of accenture class "+num);

}

static public void demo(this string obj)

{

Console.WriteLine("demo is method of string class");

}

}

internal class Program

{

static void Main(string[] args)

{

Accenture obj=new Accenture();

obj.show();

obj.display(100);

string s = "";

s.demo();

Console.ReadKey();

}

}

}

**dynamic Demo:**

namespace dynamicdemo\_pre

{

class Accenture

{

dynamic empno;

public void show(dynamic num)

{

}

}

internal class Program

{

static void Main(string[] args)

{

dynamic num = "ram";

num = 20.3;

Console.WriteLine(num.GetType());

Console.ReadKey();

}

}

}

**Anonymous demo**

namespace anonymous\_demo\_pre

{

internal class Program

{

static void Main(string[] args)

{

var emp = new{ empno = 101, empname = "ram" };

Console.WriteLine(emp.empno);

Console.WriteLine(emp.empname);

Console.ReadKey();

}

}

}