

Q 1. Create a program to show the usage of

Parameterized constructor

Parameterless constructor

parameterise constructor

Default constructor

...

using System;

class Student

{

private string name;

private int age;

// Default constructor (parameterless)

public Student()

{

name = "Tanishq ";

age = 21;

}

// Parameterized constructor

public Student(string name, int age)

{

this.name = name;

this.age = age;

}

// Display student details

public void DisplayDetails()

{

Console.WriteLine("Name: " + name);

Console.WriteLine("Age: " + age);

}

}

class Program

{

static void Main()

{

// Create student object using default constructor Student

student1 = new Student();

student1.DisplayDetails();

// Create student object using parameterized constructor

Student student2 = new Student("Shubham ", 20);

student2.DisplayDetails();

}

```
}
```

Q2 Wap to show the usage of static constructor

...

```
using System;
```

```
class StaticConstructor
```

```
{
```

```
    static int x;
```

```
    static int y;
```

```
    static StaticConstructor()
```

```
    {
```

```
        x = 10;
```

```
        y = 20;
```

```
    }
```

```
    public static void Display()
```

```
    {
```

```
        Console.WriteLine("x = " + x);
```

```
        Console.WriteLine("y = " + y);
```

```
    }
```

```
}
```

```
class Program
```

```
{
```

```
    static void Main()
```

```
    {
```

```
        StaticConstructor.Display();
```

```
    }
```

```
}
```

Q3 Can we create a object of class having private constructor show it with help of program
how we can access the field and method of that class

...

```
using System;
```

```
class PrivateConstructor
```

```
{
```

```
    private int x;
```

```
    private PrivateConstructor()
```

```
    {
```

```
        x = 10;
```

```
    }
```

```

    public static PrivateConstructor GetInstance()
    {
        return new PrivateConstructor();
    }

    public void Display()
    {
        Console.WriteLine("x = " + x);
    }
}

class Program
{
    static void Main()
    {
        PrivateConstructor obj = PrivateConstructor.GetInstance();
        obj.Display();
    }
}

```

Q4 WAP to show the usage of This Keyword
Yeh raha corrected code:

```

class Test
{
    int num;

    Test(int num)
    {
        this.num = num;
    }

    public static void Main()
    {
        Test t = new Test(4);
        Console.WriteLine("Value is " + t.num);
    }
}

```