

Aim:- Write a C# program for serialization.

Source code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
using System.Runtime;
using System.Runtime.Serialization.Formatters.Binary;

namespace ConsoleApplication1
{
    [Serializable]
    public class employee
    {
        int id;
        String name;
        public int Empid
        {
            get
            {
                return id;
            }
            set
            {
                id = value;
            }
        }
        public string Empname
        {
            get
            {
                return name;
            }
            set
            {
                name = value;
            }
        }
        public employee()
        {
        }
    }
}

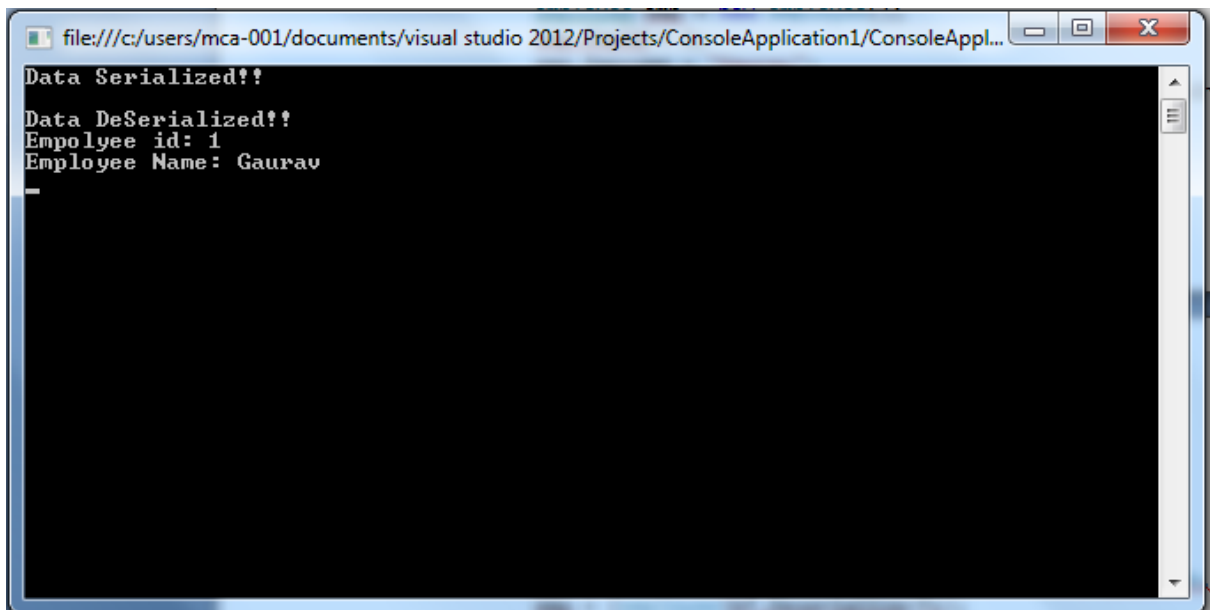
class Program
{
    static void Main(string[] args)
    {
        FileStream fs;
        BinaryFormatter bf = new BinaryFormatter();
        employee emp = new employee();
        emp.Empid = 1;
        emp.Empname = "Gaurav";
        fs = new FileStream("D:\\student\\file3.txt", FileMode.Create);
    }
}
```

```

        bf.Serialize(fs, emp);
        Console.WriteLine("Data Serialized!!");
        fs.Close();
        fs = new FileStream("D:\\student\\file3.txt", FileMode.Open);
        emp = (employee)bf.Deserialize(fs);
        Console.WriteLine("");
        Console.WriteLine("Data DeSerialized!!");
        Console.WriteLine("Empolyee id: {0}", emp.Empid);
        Console.WriteLine("Employee Name: {0}", emp.Empname);
        Console.ReadLine();
    }
}
}

```

Output:



The screenshot shows a console window titled "file:///c:/users/mca-001/documents/visual studio 2012/Projects/ConsoleApplication1/ConsoleAppl...". The output text is as follows:

```

Data Serialized!!
Data DeSerialized!!
Empolyee id: 1
Employee Name: Gaurav

```