NAME: MUHAMMAD HAMZA

SID:10040

DP ASSIGNMENT 02

STRATEGY

```
CODE:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace DPaSS02_10040
{
    public interface ICompression
        void CompressFolder(string compressedArchiveFileName);
    public class RarCompression : ICompression
        public void CompressFolder(string compressedArchiveFileName)
            Console.WriteLine("Folder is compressed using Rar approach: '" +
compressedArchiveFileName + ".rar' file is created");
   public class ZipCompression : ICompression
        public void CompressFolder(string compressedArchiveFileName)
            Console.WriteLine("Folder is compressed using zip approach: '" +
compressedArchiveFileName + ".zip' file is created");
    }
   public class CompressionContext
        private ICompression Compression;
        public CompressionContext(ICompression Compression)
            this.Compression = Compression;
        public void SetStrategy(ICompression Compression)
            this.Compression = Compression;
        public void CreateArchive(string compressedArchiveFileName)
            Compression.CompressFolder(compressedArchiveFileName);
    }
```

```
class Program
{
    static void Main(string[] args)
    {
        CompressionContext ctx = new CompressionContext(new ZipCompression());
        ctx.CreateArchive("muhammadHamza10040");
        ctx.SetStrategy(new RarCompression());
        ctx.CreateArchive("muhammadHamza10040");
        Console.ReadLine();
    }
}
```

OUTPUT:

```
Folder is compressed using zip approach: 'muhammadHamza10040.zip' file is created
Folder is compressed using Rar approach: 'muhammadHamza10040.rar' file is created
```

SINGLETON

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace SingleTon
    sealed class SingleTon
    {
        private SingleTon()
        {
       public static SingleTon getInstance = null;
       public static SingleTon myObject()
            if (getInstance==null)
            {
                return new SingleTon();
            return getInstance;
        }
       public void myMethod()
            Console.WriteLine("This is MY Method \n Muhammad Hamza 10040 \n");
        }
    }
   class Program
        static void Main(string[] args)
```

This is MY Method Muhammad Hamza 10040

This is MY Method Muhammad Hamza 10040