TAAZAA TRAINING

ASSIGNMENT-5

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1. COLLECTION WITH PROPER NAMING CONVENTION

country.cs

```
namespace collection_demo.Model
{
    public class Country //pascal case
    {
        public string currency{get;set;}//camel case
        public string cname{get;set;}//camel case
}
}
```

Country Details.cs

```
using collection_demo.Model;
using System.Collections;
using System.Collections.Generic;
namespace collection_demo.Proper_Model
    public class CountryDetails//pascal case
         public ArrayList countryDetails1()//camel case
            ArrayList arrayList = new ArrayList();//pascal case
            arrayList.Add("Ruppess");
            arrayList.Add("India");
            arrayList.Add("America");
            arrayList.Add("Dollar");
            arrayList.Add("Cameroon");
            arrayList.Add("Franc");
            return arrayList;
         public List<Country> CountryDetails2()
            List<Country> obj = new List<Country>();
            obj.Add(new Country
```

Program.cs

```
using System;
using collection_demo.Model;
using collection_demo.Proper_Model;
using System.Collections;
namespace collection_demo//camel case
    class Program//pascal case
        static void Main()
            var obj=new CountryDetails();//pascal case
            ArrayList arrayList=obj.countryDetails1();//pascal case
             int count=arrayList.Count;
             for(int i=0;i<count;i++)</pre>
               System.Console.WriteLine(arrayList[i]);
            var objlist =new CountryDetails();
           var list=objlist.CountryDetails2();
           int count1=list.Count;
           for(int i=0;i<count1;i++)</pre>
               Console.WriteLine(list[i].currency+" "+list[i].cname);
           }}}
```

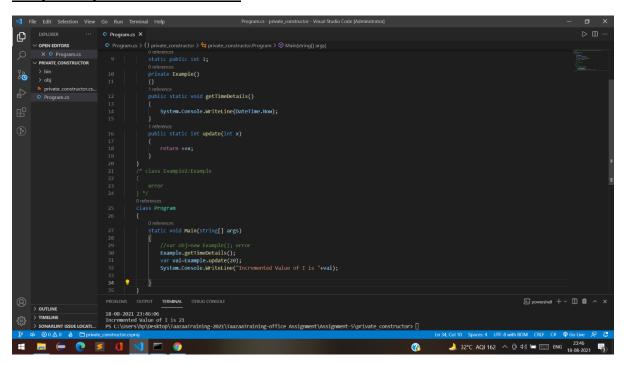
Output of collections

```
| Time | Lots | Selection | View | Go | Run | Terminal | Nether | New York |
```

2 Private Constructor

```
error
} */
class Program
{
    static void Main(string[] args)
    {
        //var obj=new Example(); error
        Example.getTimeDetails();
        var val=Example.update(20);
        System.Console.WriteLine("Incremented Value of I is "+val);
    }
}
```

Output of private constructor



3 Dictionary

```
/* A dictionary is a collection of (key,value)pairs and it is present in (syst
em.collection.Genericnamespace),
here we need to specify types of key and value. */
using System;
using System.Collections.Generic;
namespace dictionary demo
   public class Employee
        public string Ename { get; set; }
        public int Eid { get; set; }
    class Program
        static void Main(string[] args)
            Employee e1 = new Employee()
                Eid = 100,
                Ename = "Sukhdev"
            };
            Employee e2 = new Employee()
                Eid = 101,
                Ename = "Sumit"
            };
            Employee e3 = new Employee()
                Eid = 102,
                Ename = "Kishan"
            Dictionary<int, Employee> Employeesdictionary=new Dictionary<int, E
mployee>();
            Employeesdictionary.Add(e1.Eid,e1);//here key is id and value is E
mployee
            Employeesdictionary.Add(e2.Eid,e2);
            Employeesdictionary.Add(e3.Eid,e3);
            Employee first= Employeesdictionary[100];
            foreach(KeyValuePair<int, Employee> item in Employeesdictionary)
                System.Console.WriteLine("Key={0}", item.Key);
                Employee employee=item.Value;
                System.Console.WriteLine("Id={0}, Name={1}, ", employee.Eid,em
ployee.Ename);
```

Output of dictionary program

4 HashTable

```
/* Hash Table is basically a collection of key-
value pairs where key is an indexer and value is accessed by the key and it im
plementes IDictionary interface*/
using System;
using System.Collections;
namespace hash_demo
{
    class Program
        static void Main(string[] args)
            Hashtable hashtable=new Hashtable();
            //Inserting
            hashtable.Add(1,"Computer science");
            hashtable.Add(2, "Mechanical");
            hashtable.Add(3,"Civil");
            hashtable.Add(4,"Electricals");
            //deletion
            hashtable.Remove(4);
            //search by value()
            System.Console.WriteLine(hashtable.ContainsKey(4)); //return true
or false based on value
```

Output of HashTable Program

