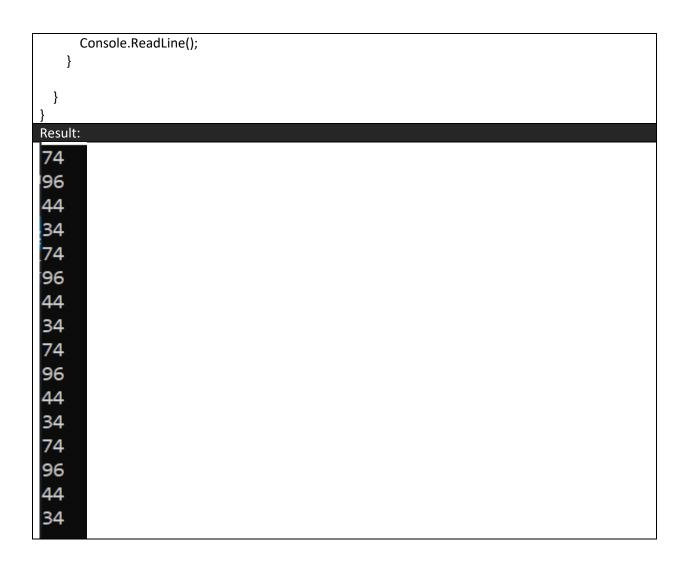
Day 8 Assignment By Triveni Anumolu 02-02-2022

1. Declare and initialize a list with 8 values. write for loop, foreach loop, lambda, linq query to print even numbers.

Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Day8Project1
  internal class Program
    //Author: Triveni Anumolu
    //Purpose: Declare & initialize a List With 8 values
    static void Main(string[] args)
      List<int> data = new List<int>() { 74, 87, 99, 96, 44, 85, 34 };
      //Even Numbers Using For Loop
      for (int i = 0; i < data.Count; i++)
        if (data[i] % 2 == 0)
           Console.WriteLine(data[i]);
      }
      //Even Numbers Using foreach loop
      foreach (var d in data)
        if (d % 2 == 0)
           Console.WriteLine(d);
      //Even Numbers using Lambda Expression
      data.Where(x => x \% 2 == 0).ToList().ForEach(x => Console.WriteLine(x));
      //Even numbers using LINQ Query
      var result = from v in data
             where v % 2 == 0
             select v;
      result.ToList().ForEach(x => Console.WriteLine(x));
```



```
Purpose: Creating employee array object and initializing using loops
  ********************************
  class Employee
    public int id;
    public string name;
    public int salary;
  class Program
    static void Main(string[] args)
      Employee[] emp = new Employee[]
        new Employee(){id=1, name="abc",salary=2000 },
        new Employee(){id=2, name="bcd",salary=40000 },
        new Employee(){id=3, name="cde",salary=50000 },
        new Employee(){id=4, name="def",salary=6000 },
        new Employee(){id=5, name="efg",salary=70000 }
      };
      //for loop
      for(int i=0;i<emp.Length;i++)
        if(emp[i].salary>5000)
           Console.WriteLine($"id={emp[i].id},name={emp[i].name},salary={emp[i].salary}");
      //foreach loop
      foreach(var e in emp)
        if(e.salary>5000)
        Console.WriteLine($"id={e.id}, name={e.name}, salary={e.salary}");
      //lambda expression
      emp.ToList().Where(e=>e.salary>=5000).ToList().ForEach(e =>Console.WriteLine($"id={e.id},
name={e.name}, salary={e.salary}"));
      Console.ReadLine();
    }
}
```

Result:

```
id=2,name=bcd,salary=40000
id=3,name=cde,salary=50000
id=4,name=def,salary=6000
id=5,name=efg,salary=70000
id=2, name=bcd, salary=40000
id=3, name=cde, salary=50000
id=4, name=def, salary=6000
id=5, name=efg, salary=70000
id=2, name=bcd, salary=40000
id=3, name=cde, salary=50000
id=4, name=def, salary=6000
id=5, name=efg, salary=70000
```

3. Create a class Product and add variables id, name, price, brand print product (name and brand) whose price is more than 500using forforeach looplambdaling query

Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Day8Project3
  class Product
  //Author: Triveni anumolu
  //Purpose: Create a class Product and add variables id, name, price, brand. print product(name and
brand) whose price is more than 500
 {
    public int Id;
    public string name;
    public int price;
    public string brand;
  class Program
    static void Main(string[] args)
```

```
List<Product> products = new List<Product>()
         new Product() { Id = 101, name ="Air Conditioner", price = 63000, brand = "Daikin"},
        new Product() { Id = 201, name = "Television", price = 47909, brand = "LG"},
        new Product() { Id = 301, name = "DvD player", price = 3987, brand = "Onida"},
        new Product() { Id = 401, name = "Refrigrator", price = 28890, brand = "Samsung"},
        new Product() { Id = 501, name ="Laptop", price = 43998, brand = "Dell"}
      };
      //Using For Loop
      for (int i = 0; i < products.Count; i++)
        if (products[i].price > 500)
          Console.WriteLine($"name={products[i].name}, brand={products[i].brand}");
      }
      //Using foreach loop
      foreach (var d in products)
        if (d.price > 500)
          Console.WriteLine($"name={d.name}, brand={d.brand}");
      //using Lambda Expression
      products.Where(x => x.price > 500).ToList().ForEach(x => Console.WriteLine($"name={x.name},
brand={x.brand}"));
      //Even numbers using LINQ Query
      var result = from v in products
             where v.price > 500
      result.ToList().ForEach(x => Console.WriteLine($"name={x.name}, brand={x.brand}"));
      Console.ReadLine();
 }
Result:
```

```
name=Air Conditioner, brand=Daikin
name=Television, brand=LG
```

5. Create your own class and variables and initialize with some valuesforforeachlambdalinq query

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Day8Project5
{
      //Author: Triveni Anumolu
      //Program: Own class with own variables and printing by using for,foreach,Lamda,LINQ
  class Office
      public string name;
      public string location;
      public string type;
  class Program
      static void Main(string[] args)
         List<Office> off = new List<Office>()
           new Office() { name = "nbhealthcare", location = "Madhapur", type = "IT" },
           new Office() { name = "eenadu", location = "Irrummanzil", type = "Paper" },
           new Office() { name = "byjus", location = "jubliee hills", type = "education" },
           new Office() { name = "sutherland", location = "Lanco hills", type = "IT" },
           new Office() { name = "accenture", location = "Mindspace", type = "IT" }
```

```
};
      //for loop
      for (int i = 0; i < off.Count; i++)
        Console.WriteLine($"name={off[i].name}, location={off[i].location}, type={off[i].type}");
      //foreach loop
      foreach (var o in off)
        Console.WriteLine($"name={o.name}, location={o.location}, type={o.type}");
      //Lamda Expression
      off.ToList().ForEach(o => Console.WriteLine($"name={o.name}, location={o.location},
type={o.type}"));
      //LINQ Query
      var result = from o in off
             select o;
      result.ToList().ForEach(o => Console.WriteLine($"name={o.name}, location={o.location},
type={o.type}"));
      Console.ReadLine();
      }
Result:
```

name=nbhealthcare, location=Madhapur, type=IT name=eenadu, location=Irrummanzil, type=Paper name=byjus, location=jubliee hills, type=education name=sutherland, location=Lanco hills, type=IT name=accenture, location=Mindspace, type=IT name=nbhealthcare, location=Madhapur, type=IT name=eenadu, location=Irrummanzil, type=Paper name=byjus, location=jubliee hills, type=education name=sutherland, location=Lanco hills, type=IT name=accenture, location=Mindspace, type=IT name=nbhealthcare, location=Madhapur, type=IT name=eenadu, location=Irrummanzil, type=Paper name=byjus, location=jubliee hills, type=education name=sutherland, location=Lanco hills, type=IT name=accenture, location=Mindspace, type=IT name=nbhealthcare, location=Madhapur, type=IT name=eenadu, location=Irrummanzil, type=Paper name=byjus, location=jubliee hills, type=education name=sutherland, location=Lanco hills, type=IT name=accenture, location=Mindspace, type=IT