# Day-08 Morning Assignment
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NB Healthcare Technologies

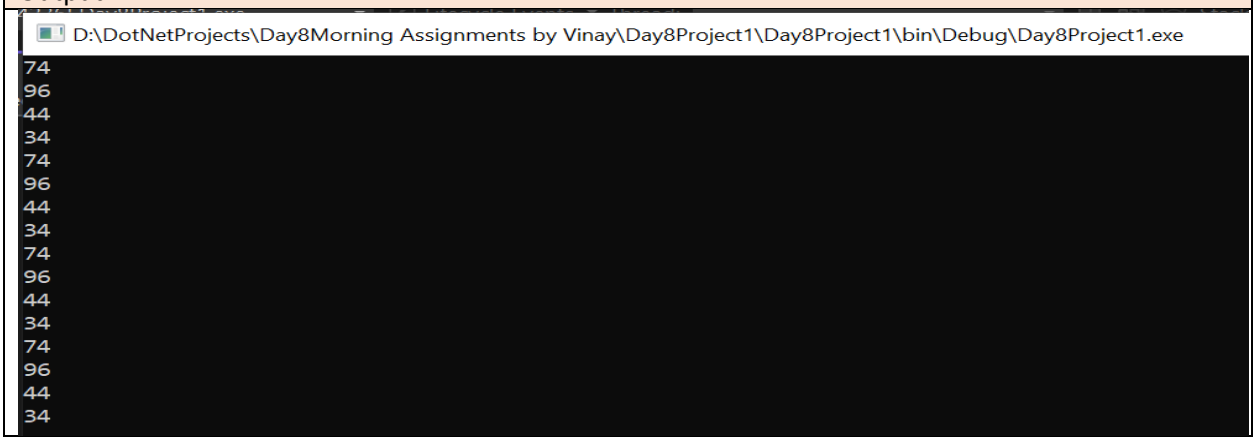
**1. Declare and initialize a list with 8 values. write for loop, foreach loop, lambda, linq query to print even numbers.**

**Code:**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day8Project1
{
   internal class Program
   {
      //Author: Vinay Kudali
      //Purpose: Declare & initialize a List With 8 values
      static void Main(string[] args)
      {
         List<int> data = new List<int>() { 65, 87, 99, 59, 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));

        Console.ReadLine();
    }

  }
}
```

Output:




**2. Create a class Employee with three variables as discussed in the class and create a list of Employeespublic int id;**
**public string name;public int salary;**

**Code:**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day8Project2
{
   class Employee
   {
      //Author; Vinay Kudali
```

```
      //Purpose: Create a class Employee with three variables as discussed in the class and
create a list of Employees
      public int id;
      public string name;
      public int salary;
   }
   class Program
   {
      static void Main(string[] args)
      {
         List<Employee> employees = new List<Employee>()
         {
           new Employee(){id=1,name="varun" ,salary=30400},
           new Employee(){id=2,name="navven" ,salary=19000},
           new Employee(){id=3,name=”dinesh" ,salary=31200},
           new Employee(){id=4,name="gopal" ,salary=47330},
           new Employee(){id=5,name="naresh" ,salary=21000}

         };
         //for loop
         for(int i=0;i<employees.Count;i++)
         {
            Console.WriteLine($"id={employees[i].id}, name={employees[i].name},
salary={employees[i].salary}");
         }

         //foreach loop
         foreach(var e in employees)
            Console.WriteLine($"id={e.id}, name={e.name}, salary={e.salary}");
         Console.ReadLine();
         //lambda expression
         employees.ToList().ForEach(e => Console.WriteLine($"id={e.id}, name={e.name},
salary={e.salary}"));
         //LINQ
         var result = from e in employees
                      select e;
         result.ToList().ForEach(e => Console.WriteLine($"id={e.id}, name={e.name},
salary={e.salary}"));       }
   }
}
```

**Output:**


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

**Code:**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day8Project3
{
   class Product
   //Author: Vinay Kudali
   //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>47000)
              Console.WriteLine($"name={products[i].name}, brand={products[i].brand}");
        }

        //Using foreach loop
        foreach (var d in products)
        {
           if (d.price>47000)
              Console.WriteLine($"name={d.name}, brand={d.brand}");
        }
        //using Lambda Expression
        products.Where(x => x.price>47000).ToList().ForEach(x =>
Console.WriteLine($"name={x.name}, brand={x.brand}"));


        //Even numbers using LINQ Query
        var result = from v in products
                     where v.price>47000
                     select v;
        result.ToList().ForEach(x => Console.WriteLine($"name={x.name}, brand={x.brand}"));

        Console.ReadLine();

    }
  }
}
```

**Output:**