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| Day8 Assignment  By  Jonnagiri sivanagaprasanna  02-02-2022 |

**1.intiliaze list with 8 values using 1.forloop**

**2.foreach**

**3.lamda**

**4.linq**

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| **Program:** initialize list with 8values to print even numbers |
| **Code:** |
| **using System;**  **using System.Collections.Generic;**  **using System.Linq;**  **using System.Text;**  **using System.Threading.Tasks;**  **//\*\*\*\*\*\*\*\*\***  **//AUTHOR:j siva naga prasanna**  **//PURPOSE:INTIALIZE 8 VALUES TO PRINT EVEN NUMBERS**  **//\*\*\*\*\*\*\*\*\***  **namespace evennumbers**  **{**  **internal class Program**  **{**  **static void Main(string[] args)**  **{**  **List<int> data = new List<int>() { 22, 34, 46, 65, 98, 22, 54, 64 };**  **//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);**  **}**  **//using lamda**  **data.ForEach(x => Console.WriteLine(x));**  **data.Where(d => d % 2 == 0).ToList().ForEach(d => Console.WriteLine(d));**  **//using LINQ**  **var result = from d in data**  **where d % 2 == 0**  **select d;**  **result.ToList().ForEach(d => Console.WriteLine());**  **Console.ReadLine();**  **}**  **}**  **}** |
| **Output:** |
| **Output:** |

**2.class employee with 3variables and list employee**

**Using 1.foreloop**

**2.foreach**

**3.lamda**

**4.LINQ**

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| **Program:**employee with 3 variables and list of employee |
| **Code:** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*  //AUTHOR:j siva naga prasanna  //purpose:print employee id ,salary,name  //\*\*\*\*\*\*  namespace employee\_id\_name\_salary\_using\_4\_loops  {  class Employee  {  public int Id;  public string Name;  public int salary;  }  internal class Program  {  static void Main(string[] args)  {  List<Employee> employees = new List<Employee>()  {  new Employee(){ Id = 101, Name = "siva", salary = 15000 },  new Employee(){ Id = 102, Name = "hanuman reddy", salary = 10000 },  new Employee() { Id = 103, Name = "naveen", salary = 20000 },  new Employee() { Id = 104, Name = "raaju", salary = 30000 },  new Employee() { Id = 105, Name = "venky", salary = 40000 },  };  // create employees using FOR LOOP  for (int i = 0; i < employees.Count; i++)  {  Console.WriteLine($"id={employees[i].Id},name={employees[i].Name}, salary={employees[i].salary}");  }  Console.WriteLine("\*\*\*");  // create employeees using FOREACH LOOP  foreach (var e in employees)  {  Console.WriteLine($"id ={e.Id}, name={e.Name}, salary={e.salary}");  }  Console.WriteLine("\*\*\*\*");  // create employees using LAMBDA EXPRESSION  employees.ToList().ForEach(e => Console.WriteLine($"id{e.Id}, name={e.Name}, salary={e.salary}"));  Console.WriteLine("\*\*\*");  // create employees using LINQ QUERY  var result = from e in employees  select e;  result.ToList().ForEach(e => Console.WriteLine($"id{e.Id},name={e.Name},salary={e.salary}"));  Console.ReadLine();  }  }  } |
| **Output:** |
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**3.creat class product and add variables id,name,price,brand**

**Print product nameand brand whose price ismore than 500**

**Using 1.forloop,2.foreach,3.lamda,4.LINQ**

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| **Program:**print whose price is more than 500 |
| **Code:** |
| **using System;**  **using System.Collections.Generic;**  **using System.Linq;**  **using System.Text;**  **using System.Threading.Tasks;**  **//\*\*\*\*\*\*\*\*\*\*\*\*\***  **//author:j siva naga prasanna**  **//purpose:print product id,name,brand**  **namespace product\_id\_name\_price\_using\_4\_loops**  **{**  **class Product**  **{**  **public int Id;**  **public string Name;**  **public int Price;**  **public string Brand;**  **}**  **internal class Program**  **{**  **static void Main(string[] args)**  **{**  **Product[] product = new Product[]**  **{**  **new Product() { Id = 101, Name ="laptop", Brand="dell", Price =40000},**  **new Product() { Id = 102, Name ="desktop",Brand="hp",Price=50000},**  **new Product() { Id = 103, Name ="tv",Brand="onida",Price=30000},**  **new Product() { Id = 104, Name ="WM",Brand="cristal",Price=28000},**  **new Product() { Id = 105, Name ="fridge",Brand="samsung",Price=37000}**  **};**  **Console.WriteLine("\*\*\*\*\*\*\*\*");**  **//price is >using FORLOOP**  **for (int i = 0; i < product.Length; i++)**  **{**  **if (product[i].Price >= 38000)**  **Console.WriteLine($"name={product[i].Name},Brand={product[i].Brand}");**  **}**  **Console.WriteLine("\*\*\*\*\*\*\*\*");**  **//price is >29000 using FOREACH LOOP**  **foreach (var e in product)**  **{**  **if (e.Price >= 38000)**  **Console.WriteLine($"Name={e.Name},Brand{e.Brand}");**  **}**  **Console.WriteLine("\*\*\*\*\*\*\*\*");**  **//price is >500 using LAMBDA EXPRESSION**  **product.ToList().Where(e => e.Price >= 38000).ToList().ForEach(e => Console.WriteLine($"Name={e.Name},Brand={e.Brand}"));**  **Console.WriteLine("\*\*\*\*\*\*\*\*");**  **//price is >500 using LINQ QUERY**  **var result = from e in product**  **where e.Price >= 38000**  **select e;**  **result.ToList().ForEach(e => Console.WriteLine($"Name={e.Name}, Brand={e.Brand}"));**  **Console.ReadLine();**  **}**  **}**  **}** |
| **Output:** |
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**4.creat department class whose employee is greater than 50**

**Using 1.foreloop,2.foreach,3.lamda,4.LINQ**

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| **Program:** |
| **Code:** |
| **using System;**  **using System.Collections.Generic;**  **using System.Linq;**  **using System.Text;**  **using System.Threading.Tasks;**  **namespace department\_class\_using\_4\_loops**  **{**  **class Department**  **{**  **public int id;**  **public string name;**  **public int empcount;**  **}**  **internal class Program**  **{**  **static void Main(string[] args)**  **{**  **Department[] department = new Department[]**  **{**  **new Department(){ id = 1, name ="testers",empcount=61},**  **new Department(){ id = 2, name ="HR",empcount =10},**  **new Department(){ id = 3, name ="support roles", empcount =50},**  **new Department(){ id = 4, name ="developer", empcount=100},**  **new Department(){ id = 5, name ="designers",empcount=(20)}**  **};**  **Console.WriteLine("\*\*\*\*\*\*");**  **//empcount >50 using FORLOOP**  **for (int i = 0; i < department.Length; i++)**  **{**  **if (department[i].empcount > 50)**  **Console.WriteLine($"id={department[i].id},name={department[i].name}");**  **}**  **Console.WriteLine("\*\*\*\*\*\*");**  **// empcount >50 using FOREACH LOOP**  **foreach (var e in department)**  **{**  **if (e.empcount > 50)**  **Console.WriteLine($"id={e.id},name={e.name}");**  **}**  **Console.WriteLine("\*\*\*\*\*\*");**  **// empcount >50 using LAMBDA EXPRESSION**  **department.ToList().Where(e => e.empcount > 50).ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name}"));**  **Console.WriteLine("\*\*\*\*\*\*\*\*");**  **// empcount >50 using LINQ query**  **var result = from e in department**  **where e.empcount > 50**  **select e;**  **result.ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name}"));**  **Console.ReadLine();**  **}**  **}**  **}** |
| **Output:** |
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**5.print Bank class print which bank income more than 60000**

**Using 1.forloop,2.foreach,3.lamda,4.LINQ**

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| **Program:to print bank income more than 60000** |
| **Code:** |
| **using System;**  **using System.Collections.Generic;**  **using System.Linq;**  **using System.Text;**  **using System.Threading.Tasks;**  **namespace Day8project5**  **{**  **internal class company\_1**  **{**  **class company**  **{**  **public int Id;**  **public string Name;**  **public int Income;**  **}**  **static void Main(string[] args)**  **{**  **/\*\*\*\*\*\*\*\*\*\*\*\***  **\* Author:paluru mounika**  **\* Purpose:bank class more than 600000**  **\*\*\*\*\*\*\*\*\*\*\*\*/**  **List<company> company = new List<company>()**  **{**  **new company() { Id = 1, Name = "LNT", Income = 400000 },**  **new company() { Id = 2, Name = "NBH", Income = 700000 },**  **new company() { Id = 3, Name = "TCS", Income = 10000000 },**  **new company() { Id = 4, Name = "INFOSIS0", Income = 300000 }**  **};**  **//Print the values using for loop**  **for (int i = 0; i < company.Count; i++)**  **{**  **if (company[i].Income > 600000)**  **Console.WriteLine($"Id={company[i].Id},Name={company[i].Name},Income={company[i].Income}");**  **}**  **//Print the values using foreah loop**  **foreach (var c in company)**  **{**  **if (c.Income > 600000)**  **Console.WriteLine($"Id={c.Id},Name={c.Name},income={c.Income}");**  **}**  **//Print values using Lambda Expression**  **company.ToList().Where(b => b.Income > 60000).ToList().ForEach(c => Console.WriteLine($"Id={c.Id},Name={c.Name},income={c.Income}"));**  **//print the values using LINQ**  **var result = from c in company**  **where c.Income > 600000**  **select c.Name;**  **result.ToList().ForEach(b => Console.WriteLine(b));**  **Console.ReadLine();**  **}**  **}**  **}** |
| **Output:** |
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