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| Day8 Assignment  By  Paluru Mounika  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:PALURU MOUNIKA  //PURPOSE:INTIALIZE 8 VALUES TO PRINT EVEN NUMBERS  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace day8project1  {  internal class Program  {  static void Main(string[] args)  {  List<int> data = new List<int>() { 45, 24, 46, 75, 89, 21, 34, 44 };  //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:paluru mounika  //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 = "mounika", salary = 15000 },  new Employee() { Id = 102, Name = "kavitha", salary = 10000 },  new Employee() { Id = 103, Name = "pavani", salary = 20000 },  new Employee() { Id = 104, Name = "pavana", salary = 30000 },  new Employee() { Id = 105, Name = "chandana", 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:PALURU MOUNIKA  //PUPOSE:PRINT PRODUCT WHOSE PRICE IS >500  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace product\_id\_name\_salary\_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)  {  List< Product> product = new List<Produc>  {  new Product() { Id = 101, Name ="book", Price =30, Brand="MADHU"},  new Product() { Id = 102, Name ="fan",Price=1000, Brand="GANGA"},  new Product() { Id = 103, Name ="chocolate",Price=100, Brand="Dairymilk"},  new Product() { Id = 104, Name ="pen",Price=10, Brand="PARKER"},  new Product() { Id = 105, Name ="watch",Price=2000, Brand="ROLEX"}  };  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  //price is >500 using FORLOOP  for (int i = 0; i < product.Length; i++)  {  if (product[i].Price >500)  Console.WriteLine($"name={product[i].Name},Brand={product[i].Brand}");  }  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  //price is >500 using FOREACH LOOP  foreach (var e in product)  {  if (e.Price > 500)  Console.WriteLine($"Name={e.Name},Brand{e.Brand}");  }  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  //price is >500 using LAMBDA EXPRESSION  product.ToList().Where(e => e.Price >= 500).ToList().ForEach(e => Console.WriteLine($"Name={e.Name},Brand={e.Brand}"));  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  //price is >500 using LINQ QUERY  var result = from e in product  where e.Price > 500  select e;  result.ToList().ForEach(e => Console.WriteLine($"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;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  //AUTHOR:PALURU MOUNIKA  //PUPOSE:TO PRINT WHICH DEPARTMENT IS MORE THAN 50  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  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)  {  List< Department> department = new List< Department>  {  new Department(){ id = 1, name ="software developer",empcount=51},  new Department(){ id = 2, name ="scrum master",empcount =30},  new Department(){ id = 3, name ="c# devoloper", empcount =100},  new Department(){ id = 4, name ="qa automachine", empcount=29},  new Department(){ id = 5, name ="qa manual",empcount=(63)}  };  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 Bank\_1  {  class Bank  {  public int Id;  public string Name;  public int Income;  }  static void Main(string[] args)  {  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* Author:paluru mounika  \* Purpose:bank class more than 600000  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  List<Bank> Bank = new List<Bank>()  {  new Bank() { Id = 1, Name = "Andra", Income = 400000 },  new Bank() { Id = 2, Name = "sbi", Income = 70000 },  new Bank() { Id = 3, Name = "hdfc", Income = 1000000 },  new Bank() { Id = 4, Name = "icic", Income = 30000 }  };  //Print the values using for loop  for (int i = 0; i < Bank.Count; i++)  {  if (Bank[i].Income >60000)  Console.WriteLine($"Id={Bank[i].Id},Name={Bank[i].Name},Income={Bank[i].Income}");  }  //Print the values using foreah loop  foreach (var b in Bank)  {  if (b.Income >60009)  Console.WriteLine($"Id={b.Id},Name={b.Name},income={b.Income}");  }  //Print values using Lambda Expression  Bank.ToList().Where(b => b.Income >60000).ToList().ForEach(b => Console.WriteLine($"Id={b.Id},Name={b.Name},income={b.Income}"));  //print the values using LINQ  var result=from b in Bank  where b.Income>60000  select b.Name;  result.ToList().ForEach(b => Console.WriteLine(b));  Console.ReadLine();  }  }  } |
| **Output:** |
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