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| Day-8 Morning Assignment  By  U.Joshna  [01-02-2022] |

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| Program-1 |
| Declare and initialize a list with 8 values .  Write forloop, foreach loop, lambda expression ,Linq query  To Print Even numbers? |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_8\_Mrng\_Assignment\_1  {  internal class Program  {  static void Main(string[] args)  {  List<int> data = new List<int>() { 22,47,28,67,33,98, 45,12};  //Even Numbers using For Loop  for (int i = 0; i < data.Count; i++)  {  if (data[i] % 2 == 0)  Console.WriteLine(data[i]);  }  // using for each loop  foreach (var d in data)  {  if (d % 2 == 0)  Console.WriteLine(d);  }  //using lamda expression  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(e => Console.WriteLine(e));  Console.ReadLine();  }  }  } |
| Output: |
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| Program-2 |
| Create a class employee with 3 variables as discussed in the class and a Create list of Employees  Public int id;  Public string name;  Public int salary;  Write for loop  foreach loop  lambda expression  linq query |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_8\_Mrng\_Assignment\_2  {  class Employee  {  public int id;  public string name;  public int salary;  }  internal class Program  {  static void Main(string[] args)  {  List<Employee> emp = new List<Employee>() {  new Employee() { id = 1, name = "lakshna", salary = 500000 },  new Employee() { id = 2, name = "renuka", salary = 40000 },  new Employee() { id = 3, name = "kushal", salary = 30000 },  new Employee() { id = 4, name = "joshna", salary = 20000 },  };  //using for loop  for (int i = 0; i < emp.Count; i++)  {  Console.WriteLine($"id={emp[i].id},name={emp[i].name},salary={emp[i].salary}");  }  //using foreach loop  foreach (var e in emp)  {  Console.WriteLine($"id={e.id},name={e.name},salary={e.salary}");  }  //using lamda expression  emp.ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name},salary={e.salary}"));  //using Linq  var result = from e in emp  select e;  result.ToList().ForEach(e => Console.WriteLine($"id={e.id},salary={e.salary},name={e.name}"));  Console.ReadLine();  }  }  } |
| Code: |
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| Program-3 |
| Create a class product and add variables  Id, name, price, brand  Print product (name and brand ) whose price is more than  Using  forloop  forecah loop  lambda expression  linq query |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_8\_Mrng\_Assignment\_3  {  class Product  {  public int id;  public string name;  public int price;  public string brand;  }  internal class Program  {  static void Main(string[] args)  {  List<Product> products = new List<Product>()  {  new Product() {id=1,name="lakshna",price=13000,brand="Realme mobile"},  new Product() {id=2,name="renuka",price=6000,brand="lenovo mobile"},  new Product() {id=3,name="kushal",price=15000,brand="MI mobile"},  new Product() {id=4,name="joshna",price=7000,brand="honor mobile"},  };  // for loop  for (int i = 0; i < products.Count; i++)  {  if (products[i].price > 8000)  Console.WriteLine($"name={products[i].name},brand={products[i].brand}");  }  //using foreach  foreach (var p in products)  {  if (p.price > 8000)  Console.WriteLine($"name={p.name},brand={p.brand}");  }  //lamda  products.ToList().Where(p => p.price > 8000).ToList().ForEach(p => Console.WriteLine($"name={p.name},brand={p.brand}"));  //linq  var result = from p in products  where p.price > 8000  select p;  result.ToList().ForEach(p => Console.WriteLine($"name={p.name},brand={p.brand}"));  Console.ReadLine();  }  }  } |
| Output: |
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| Program-4 |
| Create a department class and add variables  Id , name, empcount  Write code to print id , name of departments whose empcount is greater then 50  Using  forloop  foreach loop  lambda expression  linq query |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_8\_Mrng\_\_Assignment\_4  {  class Department  {  public int id;  public string name;  public int empcount;  }  internal class Program  {  static void Main(string[] args)  {  List<Department> dept = new List<Department>()  {  new Department() {id=1,name="lakshna",empcount=80},  new Department() {id=2,name="renuka",empcount=70},  new Department() {id=3,name="kushal",empcount=40},  new Department() {id=3,name="joshna",empcount=30},  };  // for loop  for (int i = 0; i < dept.Count; i++)  {  if (dept[i].empcount > 50)  Console.WriteLine($"id={dept[i].id},name={dept[i].name}");  }  //using foreach loop  foreach (var p in dept)  {  if (p.empcount > 50)  Console.WriteLine($"id={p.id},name={p.name}");  }  //using lambda expression  dept.ToList().Where(p => p.empcount > 50).ToList().ForEach(p => Console.WriteLine($"id={p.id},name={p.name}"));  //using linq  var result = from p in dept  where p.empcount > 50  select p;  result.ToList().ForEach(p => Console.WriteLine($"id={p.id},name={p.name}"));  Console.ReadLine();  }  }  } |
| Output: |
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| Program-5 |
| Create your own class and variables and  Initialize with some values  Using  for loop  foreach loop  lambda expression  linq query |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day\_8\_Mrng\_Assignment\_5  {  class Order  {  public int id;  public string custname;  public int OrderPrice;  public string CustAddress;  }  internal class Program  {  static void Main(string[] args)  {  List<Order> order = new List<Order>()  {  new Order() {id=1,custname="lakshna",OrderPrice=1200},  new Order() {id=2,custname="renuka",OrderPrice=900},  new Order() {id=3,custname="kushal",OrderPrice=1300},  new Order() {id=4,custname="joshna",OrderPrice=700},  };  //using for loop  for (int i = 0; i < order.Count; i++)  {  Console.WriteLine($"id={order[i].id},custname={order[i].custname},orderprice={order[i].OrderPrice}");  }  //using foreach loop  foreach (var o in order)  {  Console.WriteLine($"id={o.id},custname={o.custname},orderprice={o.OrderPrice}");  }  //using lamda  order.ToList().ForEach(o => Console.WriteLine($"id={o.id},custname={o.custname},orderprice={o.OrderPrice}"));  //using linq  var result = from o in order  select o;  result.ToList().ForEach(o => Console.WriteLine($"id={o.id},custname={o.custname},orderprice={o.OrderPrice}"));  Console.ReadLine();  }  }  } |
| Output: |
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