8th day Morning Assignment

By

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| 1.Declare and initialize a list with 8 values.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 \_8th\_day\_project1  {  internal class Program  {    static void Main(string[] args)  {  List<int> data = new List<int>() { 42, 52, 64, 89, 77, 65, 33, 28 };  //even number using loop  for (int i = 0; i < data.Count; i++)  {  if (data[i]%2==0)  Console.WriteLine(data[i]);  }  //for each loop  foreach (var d in data)  {  if (d%2==0)  Console.WriteLine(d);  }  //lambda Expression  data.Where(d => d % 2 == 0).ToList().ForEach(d => Console.WriteLine(d));  //linq query  var result = from d in data  where d % 2 == 0  select d;  result.ToList().ForEach(d => Console.WriteLine(d));  Console.ReadLine();  }  }  } |
| Output |
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| 2.create a class employee with three variables and create a list of employees  Public int id;  Public string name;  Public int salary;  Write for loop,foreach loop,lambda expression,link query |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_8th\_day\_project\_2  {  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 = 1, name ="pavan",salary =10000},  new Employee() { id = 2, name = "naga", salary = 6000 },  new Employee() { id = 3, name = "venkata", salary = 2000 },  new Employee() { id = 4, name = "sai", salary = 50000},    };  //forloop    for (int i = 0; i < Employees.Count; i++)  {  if (Employees[i].salary > 5000)  {  Console.WriteLine(Employees[i].name);  }  }  //foreach loop    foreach (var e in Employees)  {  if (e.salary > 5000)  {  Console.WriteLine(e.name);  }  }  //lambda expression  Employees.Where(e => e.salary > 5000).ToList().ForEach(e => Console.WriteLine(e.name));  //Linq query    var result = from e in Employees  where e.salary > 5000  select e.name;  result.ToList().ForEach(e => Console.WriteLine(e));  Console.ReadLine();  }  }  } |
| Output: |
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| 3.Create a class product and add variables id,name,price,brand and print prpoduct (name and brand) whose price is more than 500 using for,foreach,lambda,link query |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day8\_project3  {    class Product  {  public int id;  public string name;  public int price;  public string brand;  }  internal class Program  {  static void Main(string[] args)  {  List<Product> data = new List<Product>()  {  new Product() { id = 1, name ="Pavan",price =200,brand="mi"},  new Product() { id = 2, name = "naga", price = 600,brand="realme" },  new Product() { id = 3, name = "venkata", price = 300,brand="lava"},    };  //by using forloop    for (int i = 0; i < data.Count; i++)  {  if (data[i].price > 500)  {  Console.WriteLine($"name={data[i].name}, brand={data[i].brand}");  }  }  //by using foreach loop    foreach (var d in data)  {  if (d.price > 500)  {  Console.WriteLine($"name={d.name}, brand={d.brand}");  }  }  //by using lambda expression    data.Where(d => d.price > 500).ToList().ForEach(d => Console.WriteLine($"name={d.name}, brand={d.brand}"));  //using Linq    var result = from d in data  where d.price > 500  select d.name + "--" + d.brand;  result.ToList().ForEach(d => Console.WriteLine(d));  Console.ReadLine();  }  }  } |
| Output: |
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| 4.create a department class and add variables id,name,empcount write code to print id,name of departments whose empcount is greater than 50 using for,foreach,lambda,linq query |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_8th\_day\_4th\_project  {  class Department  {  public int id;  public string name;  public int departmentcount;  }  internal class Program  {  static void Main(string[] args)  {  List<Department> data = new List<Department>()  {  new Department() { id = 1, name ="pavan",departmentcount =20},  new Department() { id = 2, name = "naga", departmentcount = 55},  new Department() { id = 3, name = "venkata", departmentcount = 50},    };  // forloop    for (int i = 0; i < data.Count; i++)  {  if (data[i].departmentcount > 50)  {  Console.WriteLine($"id={data[i].id}, brand={data[i].name}");  }  }  // foreach loop    foreach (var d in data)  {  if (d.departmentcount > 50)  {  Console.WriteLine($"id={d.id}, brand={d.name}");  }  }  //lambda expression    data.Where(d => d.departmentcount > 50).ToList().ForEach(d => Console.WriteLine($"id={d.id}, brand={d.name}"));    //linq query  var result = from d in data  where d.departmentcount > 50  select d.id + "--" + d.name;  result.ToList().ForEach(d => Console.WriteLine(d));  Console.ReadLine();  }  }  } |
| Output: |
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| 5.Create your own class and variables and initialize with some values using for,foreach,lambda,link query |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_8th\_day\_5th\_project  {  class customer  {  public int id;  public string name;  public int salary;  }  internal class Program  {  static void Main(string[] args)  {  List<customer> customers = new List<customer>()  {  new customer() { id = 1, name ="pavan", salary = 6000},  new customer() { id = 2, name = "naga", salary = 8000 },  new customer() { id = 3, name = "venkata", salary = 4000 },  new customer() { id = 4, name = "sai", salary = 2000},  };  //forloop  for (int i = 0; i < customers.Count; i++)  {  if (customers[i].salary > 5000)  {  Console.WriteLine(customers[i].name);  }  }  //foreach loop  foreach (var e in customers)  {  if (e.salary > 5000)  {  Console.WriteLine(e.name);  }  }  //lambda expression  customers.Where(e => e.salary > 5000).ToList().ForEach(e => Console.WriteLine(e.name));  //Linq query  var result = from e in customers  where e.salary > 5000  select e.name;  result.ToList().ForEach(e => Console.WriteLine(e));  Console.ReadLine();  }  }  } |
| Output: |
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