` 7th day Morning Assignment

By

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| 1.Create employee class with 3 variables and two methods Reademployee and Printemployee and create an object and call methods |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace \_7th\_day\_project1  {  internal class employee  {  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  private int id;  private string name;  private int salary;  public void ReadEmployee()  {  Console.WriteLine("Enter id ");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter name");  name = Console.ReadLine();  Console.WriteLine("Enter salary");  salary = Convert.ToInt32(Console.ReadLine());  }  public void PrintEmployee()  {  Console.WriteLine($"id = {id}, name = {name}, salary = {salary}");  }  static void Main(string[] args)  {  employee emp1 = new employee();  emp1.ReadEmployee();  emp1.PrintEmployee();  Console.ReadLine();  }  }  } |
| Output : |
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| 2.Write the 3 Definition of class and 4 points about object discussed in the class |
| Class : |
| * A class is group of variables and methods * A class is like a design/blueprint to create object * A class consists of state and behavior |
| Object: |
| * An object is an instance of a class * We can create any num of objects * Objects occupy memory * Objects are reference type |

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| 3.Create below classes  (a) Customer Class (b)Product class (c) Class seller  (d)Department |
| (a)Customer class |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace class\_customer  {  internal class customer  {  private int id;  private string name;  private long phnno;  private string email;  public void ReadCustomer()  {  Console.WriteLine("Enter id:");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter name:");  name = Console.ReadLine();  Console.WriteLine("Enter phnno:");  phnno = Convert.ToInt64(Console.ReadLine());  Console.WriteLine("enter e mail id");  email = Console.ReadLine();  }  public void PrintCustomer()  {  Console.WriteLine($"Id={id}, Name={name}, Phnno={phnno} email={email}");  }  }  internal class Program  {  static void Main(string[] args)  {  Customer Customer1 = new Customer();  Customer1.ReadCustomer();  Customer1.PrintCustomer();  Console.ReadLine();  }  }  } |

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| Output: |
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| (b)Class Product |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace product  {  class Product  {  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  private int id;  private string name;  private int price;  public void ReadProduct()  {  Console.WriteLine("Enter id:");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter product name:");  name = Console.ReadLine();  Console.WriteLine("Enter product price:");  price = Convert.ToInt32(Console.ReadLine());  }  public void PrintProduct()  {  Console.WriteLine($"Id={id},Name={name},Price={price}");  }  }  internal class Program  {  static void Main(string[] args)  {  Product product1 = new Product();  product1.ReadProduct();  product1.PrintProduct();  Console.ReadLine();  }  }  } |
| Output: |
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| (c)Class Seller |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace seller  {  class Seller  {  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  private long phno;  private string name;  private string place;  public void ReadSeller()  {  Console.WriteLine("Enter phno:");  phno = Convert.ToInt64(Console.ReadLine());  Console.WriteLine("Enter seller name:");  name = Console.ReadLine();  Console.WriteLine("Enter seller place:");  place = Console.ReadLine();  }  public void PrintSeller()  {  Console.WriteLine($"phno={phno},Name={name},Place={place}");  }  }  internal class Program  {  static void Main(string[] args)  {  Seller seller1 = new Seller();  seller1.ReadSeller();  seller1.PrintSeller();  Console.ReadLine();  }  }  } |
| Output: |
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| (d) Class Department |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Class  {  class Department  {  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  private int id;  private string name;  private string place;  public void ReadDepartment()  {  Console.WriteLine("Enter id:");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter department name:");  name = Console.ReadLine();  Console.WriteLine("Enter department place:");  place = Console.ReadLine();  }  public void PrintDepartment()  {  Console.WriteLine($"Id={id},Name={name},Place={place}");  }  }  internal class Program  {  static void Main(string[] args)  {  Department department1 = new Department();  department1.ReadDepartment();  department1.PrintDepartment();  Console.ReadLine();  }  }  } |
| Output : |
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| 4.Create employee class with 3 public variable create employee object and initialize with values while creating object and print the values |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace variable  {  class Employee  {  public int id;  public string name;  public int salary;  }  internal class Program  {  static void Main(string[] args)  {  Employee emp = new Employee() { id = 1, name = "sudheer", salary = 2000 };  Console.WriteLine($"id={emp.id},name={emp.name},Salary={emp.s)alary}");  Console.ReadLine();  }  }  } |
| OutPut : |
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| 6.Create employee class as shown below |
| Class employee |
| { |
| Public int id;  Public string name;  Public int salary;  } |
| Create employee array object and initialize with 5 employee using for loop, for each loop, lambda expression |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace loops  {  class Employee  {  public int id;  public string name;  public int salary;  }  internal class Program  {  static void Main(string[] args)  {  Employee[] employees = new Employee[]  {  new Employee() { id = 1, name ="pavan", salary =1000},  new Employee() { id = 2, name ="naga",salary=2000},  new Employee() { id = 3, name ="venkata",salary=6000},  new Employee() { id = 4, name ="sai",salary=7000},  new Employee() { id = 5, name ="sudheer",salary=20000}  };  //using for loop  for (int i = 0; i < employees.Length; i++)  {  Console.WriteLine($"id={employees[i].id},name={employees[i].id},salary={employees[i].id}");  }  //using foreach  foreach (var e in employees)  {  Console.WriteLine($"id={e.id},name={e.name},salary{e.salary}");  }  //using lamda expression  employees.ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name},salary{e.salary}"));  Console.ReadLine();  }  }  } |
| Output: |
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| 6.write code to print employees who is getting salary >=5000 using for loop,for each,lambda expression |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace salary  {  class Employee  {  public int id;  public string name;  public int salary;  }  internal class Program  {  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  static void Main(string[] args)  {  Employee[] employees = new Employee[]  {  new Employee() { id = 1, name ="pavan", salary =1000},  new Employee() { id = 2, name ="naga",salary=5000},  new Employee() { id = 3, name ="venkata",salary=6000},  new Employee() { id = 4, name ="sai",salary=7000},  new Employee() { id = 5, name ="sudheer",salary=4000}  };  //using for loop  for (int i = 0; i < employees.Length; i++)  {  if (employees[i].salary >= 5000)  Console.WriteLine($"id={employees[i].id},name={employees[i].name},salary={employees[i].salary}");  }  //using foreach  foreach (var e in employees)  {  if (e.salary >= 5000)  Console.WriteLine($"id={e.id},name={e.name},salary{e.salary}");  }  //using lamda expression  employees.ToList().Where(e => e.salary >= 5000).ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name},salary{e.salary}"));  Console.ReadLine();  }  }  } |
| Output: |
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| 7.Create List of Product arrays |
| Code : |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace product\_Array\_list  {  class Product  {  public int id;  public string name;  public int price;  }  internal class Program  {  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  static void Main(string[] args)  {  Product[] product = new Product[]  {  new Product() { id = 1, name ="earphones", price=100},  new Product() { id = 2, name ="Bluetooth earphones",price=255},  new Product() { id = 3, name ="lava earphones",price=200},  new Product() { id = 4, name ="mi hearphones",price=400},  new Product() { id = 5, name ="realme hearphones",price=500}  };  //using for loop  for (int i = 0; i < product.Length; i++)  {  if (product[i].price >= 300)  Console.WriteLine($"id={product[i].id},name={product[i].name},Price={product[i].price}");  }  //using foreach  foreach (var e in product)  {  if (e.price >= 300)  Console.WriteLine($"id={e.id},name={e.name},Price{e.price}");  }  //using lamda expression  product.ToList().Where(e => e.price >= 300).ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name},Price{e.price}"));  Console.ReadLine();  }  }  } |
| Output : |