|  |
| --- |
| **Day 7 Assignment(1 Feb)**  **by Ramakrishna** |
| **1 . Create Employee class with three variables** |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Employee\_class  {  class Employee  {  public int id;  public string name;  public 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}");  }  }    internal class Program  {  static void Main(string[] args)  {  Employee emp1 = new Employee();  emp1.ReadEmployee();  emp1.PrintEmployee();    Console.ReadLine();  }    }  } |
| Output: |

|  |
| --- |
| **2. Write the 3 def of class and 4 points about object discussed in the class.** |
| * Class is a group of of variable and methods and methods deals with variable. * Class is like to design to create objects. * Class consists of state(variable) and behavior(methods). |
| * An object is an instance of class. * We can create any number of objects * Objects occupy memory. * Objects are reference type. |

|  |
| --- |
| **3. Create below classes:**  **1. Customer** |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Employee\_class  {  class Employee  {  public int id;  public string name;  public 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}");  }  }    internal class Program  {  static void Main(string[] args)  {  Employee emp1 = new Employee();  emp1.ReadEmployee();  emp1.PrintEmployee();    Console.ReadLine();  }    }  } |
| OUTPUT: |

|  |
| --- |
| **Class products:** |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace product\_class  {  internal class Product  {    public int id;  public string name;  public 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} ");  }  static void Main(string[] args)  {  Product product1 = new Product();  product1.ReadProduct();  product1.PrintProduct();      Console.Readline();  }  }  } |
| OUTPUT: |

|  |
| --- |
| **Class seller** |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace customer\_class  {    internal class seller  {  public int id;  public string name;  public string address;    public void ReadSeller()  {  Console.WriteLine("Enter id:");  id=Convert.ToInt32(Console.ReadLine());      Console.WriteLine("Enter name:");  name=Console.ReadLine();    Console.WriteLine("Enter address:");  address=Console.ReadLine();    }  public void PrintSeller()  {  Console.WriteLine($"Id={id},Name ={name},Address={address}");  }  }  static void Main(string[] args)  {  Seller seller1 = new Seller();  seller1.ReadSeller();  seller1.PrintSeller();      Console.ReadLine();  }  }  } |
| OUTPUT: |

|  |
| --- |
| **Class Department** |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace customer\_class  {  internal class department  {  class departmemt  {  public int id;  public string name;  public string address;    public void ReadDepartment()  {  Console.WriteLine("Enter id:");  id=Convert.ToInt32(Console.ReadLine());      Console.WriteLine("Enter name:");  name=Console.ReadLine();    Console.WriteLine("Enter address:");  address=Console.ReadLine();    }  public void PrintDepartment()  {  Console.WriteLine($"Id={id},Name ={name},Address={address}");  }  static void Main(string[] args)  {  Departmemt departmemt1 = new Department();    departmemt1.ReadDepartment();  departmemt1.PrintDepartment();      Console.ReadLine();  }  }  }  } |
| Output: |

|  |
| --- |
| 4 . Create Employee class as shown below:  class Employee  {  public int id;  public string name;  public int salary;  } |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace public\_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 = "Ramakrishna", salary=10000 };  Console.WriteLine($"id={emp.id},name={emp.name},salary={emp.salary}");    Console.ReadLine();  }  }  } |
| Output: |

|  |
| --- |
| 5 .Create employees array object and initialize with 5 employees |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace create\_5\_Employees  {  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 = "Ramakrishna",salary=8000},  new Employee(){ id = 2, name = "Chintu",salary=4000},  new Employee(){ id = 1, name = "sanjay",salary=6000},  new Employee(){ id = 1, name = "sai",salary=3000},  new Employee(){ id = 1, name = "teja",salary=7000},    };    // for loop  for(int i = 0; i < employees.Length; i++)  {  Console.WriteLine($"id={employees[i].id},name={employees[i].name},salary ={employees[i].salary}");  }    //for each loop  foreach(var e in employees)  {  Console.WriteLine($"id={e .id},name={e.name},salary={e.salary}");  }    // lamda expression  employees.ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name},salary={e.salary}"));    Console.ReadLine();  }  }  } |
| Output: |

|  |
| --- |
| 6. write code to print employees who is getting salary >=5000 using forloop ,foreach loop ,lambda expression |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace print\_lessthen  {    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 = "Ramakrishna",salary=8000},    new Employee(){ id = 2, name = "Chintu",salary=4000},    new Employee(){ id = 1, name = "sanjay",salary=6000},    new Employee(){ id = 1, name = "sai",salary=3000},    new Employee(){ id = 1, name = "teja",salary=7000},        };  // for loop    for (int i = 0; i < employees.Length; i++)    {  if(employees[i].salary>=5000)  Console.WriteLine($"id={employees[i].id},name={employees[i].name},salary ={employees[i].salary}");    }  //for each loop    foreach (var e in employees)    {  if(e.salary>=5000)  Console.WriteLine($"id={e.id},name={e.name},salary={e.salary}");    }    // lamda expression    employees.ToList().Where(e =>e.salary>=5000).ToList().ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name},salary={e.salary}"));      Console.ReadLine();    }    }    } |
| Output: |

|  |
| --- |
| 7 .create list of products arrays |
| Code: using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace product\_array  {  class Product  {  public int id;  public string name;  public int price;  }  internal class Program  {  static void Main(string[] args)  {  Product[] products = new Product[]  {  new Product() { id = 1, name = "apple",price=100},  new Product() { id = 1, name = "Phone",price=5000},  new Product() { id = 1, name = "watch",price=1000},  new Product() { id = 1, name = "bat",price=3000},  };    //for loop  for(int i=0;i<products.Length;i++)  {  Console.WriteLine($"id={products[i].id},name={products[i].name},price={products[i].price}");  }    //for eachloop  foreach(var p in products)  {  Console.WriteLine($"id={p.id},name={p.name},price={p.price}");  }    //lamda expression  products.ToList().ForEach(p => Console.WriteLine($"id={p.id},name={p.name},price={p.price}"));    Console.ReadLine();  }    }  } |
| Output: |

|  |
| --- |
| create list of Customer arrays |
| Code: using System;    using System.Collections.Generic;    using System.Linq;    using System.Text;    using System.Threading.Tasks;    namespace product\_array    {    class customer    {  public int id;  public string name;  }  internal class Program  {  static void Main(string[] args)    {  customer[] customers= new customer[]  {  new customer() { id = 1, name = "rk",},    new customer() { id = 2, name = "krishna",},    new customer () { id = 3, name = "sai",},    new customer() { id = 4, name = "satya",},    };  //for loop    for (int i = 0; i<customers.Length; i++)  {    Console.WriteLine($"id={customers[i].id},name={customers[i].name}");    }        //for eachloop    foreach (var c in customers)  {    Console.WriteLine($"id={c.id},name={c.name}");    }  //lamda expression    customers.ToList().ForEach(c => Console.WriteLine($"id={c.id},name={c.name}"));    Console.ReadLine();    }  }    } |
| Output: |