|  |
| --- |
| DAY7 ASSIGNMENT  BY  PALURU MOUNIKA  01-02-2022 |

**1.Creat employee class with three variables and two methodes.**

|  |
| --- |
| **Employee class** |
| **Code:** using System;  using System.Collections.Generic;  namespace Day7project1  {  internal class Program  {  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}");  }  }  static void Main(string[] args)  {  Employee emp1 = new Employee();  emp1.ReadEmployee();  emp1.PrintEmployee();  Console.ReadLine();  }  }  } |
| **Output:** |
|  |

**2.3 definition of class and 4 points about object**

**a)3definitions of class:**

1.class is a group of variables and methodes.

2.class is like a design to creat object.

3.class is consists of state and behaviour.

**b)4 points about object:**

1.object is an instance of a class.

2.we can creat any number of objects.

3.objects occupy memory.

4.objects are reference type.

**3.pictorial represent class and multiple objects**

**The bicycle class:**

cadence

Change gears

Change condence

Change condencdebb

cuiopkl; speed

gear

break

4. creat 1.customer class

2.product class

3seller class

4.department class

|  |
| --- |
| Customer class |
| Code: |
| using System;  using System.Collections.Generic;  //AUTHOR:PALURU MOUNIKA//  //PUPOSE:PROGRAM FOR CLASES//  namespace Customer  {  internal class Customer\_1  {  public int cust\_ID;  public string cust\_Name;  public string cust\_Email;  public void ReadCustomer()  {  Console.WriteLine("Enter Cust\_ID: ");  cust\_ID = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter Cust\_Name");  cust\_Name = Console.ReadLine();  Console.WriteLine("Enter Cust\_Email: ");  cust\_Email = Console.ReadLine();  }  public void PrintCustomer()  {  Console.WriteLine($"cust\_ID = {cust\_ID},cust\_Name = {cust\_Name}, cust\_Email = {cust\_Email}");  }  static void Main(string[] args)  {  Customer\_1 cust = new Customer\_1();  cust.ReadCustomer();  cust.PrintCustomer();  Console.ReadLine();  }  }  } |
| output |
|  |

|  |
| --- |
| Product class |
| Code: |
| using System;  using System.Collections.Generic;  //AUTHOR:PALURU MOUNIKA//  //PUPOSE:PRODUCT CLASS//  namespace Product  {  internal class Product\_1  {  public int Product\_ID;  public string Product\_Name;  public string Product\_price;  public void ReadProduct()  {  Console.WriteLine("Enter Product\_ID: ");  Product\_ID = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter Product\_Name");  Product\_Name = Console.ReadLine();  Console.WriteLine("Enter Product\_price: ");  Product\_price = Console.ReadLine();  }  public void PrintProduct()  {  Console.WriteLine($"product\_ID = {Product\_ID},product\_Name = {Product\_Name}, product\_price = {Product\_price}");  }  static void Main(string[] args)  {  Product\_1 Product = new Product\_1();  Product.ReadProduct();  Product.PrintProduct();  Console.ReadLine();  }  }  } |
| Output: |
|  |

|  |
| --- |
| Seller class |
| Code: |
| using System;  using System.Collections.Generic;  //AUTHOR:PALURU MOUNIKA//  //PURPOSE:SELLER CLASS//  namespace Seller  {  internal class Seller\_1  {  public int Seller\_ID;  public string Seller\_Name;  public string Seller\_Email;  public void Readseller()  {  Console.WriteLine("Enter Seller\_ID: ");  Seller\_ID = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter Seller\_Name");  Seller\_Name = Console.ReadLine();  Console.WriteLine("Enter Seller\_Email: ");  Seller\_Email = Console.ReadLine();  }  public void Printseller()  {  Console.WriteLine($"seller\_ID = {Seller\_ID},seller\_Name = {Seller\_Name}, Seller\_Email = {Seller\_Email}");  }  static void Main(string[] args)  {  Seller\_1 seller = new Seller\_1();  seller.Readseller();  seller.Printseller();  Console.ReadLine();  }  }  } |
| Output: |
|  |

|  |
| --- |
| Department class |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //AUTHOR:PALURU MOUNIKA//  //PUPOSE:DEPARTMENT CLASS//  namespace Department  {  internal class Department1  {  public int dept\_id;  public string dept\_name;  public string course\_name;  public void ReadDepartment()  {  Console.WriteLine("Enter Dept\_ID: ");  dept\_id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter Dept\_Name: ");  dept\_name = Console.ReadLine();  Console.WriteLine("Enter Course\_Name: ");  course\_name = Console.ReadLine();  }  public void PrintDepartment()  {  Console.WriteLine($"Dept\_ID= {dept\_id}, Dept\_Name= {dept\_name}, Course\_Name= {course\_name}");  }  static void Main(string[] args)  {  Department1 dept = new Department1();  dept.ReadDepartment();  dept.PrintDepartment();  Console.ReadLine();  }  }  } |
| Output: |
|  |
|  |
|  |

5.Creat Employee class with 3 public variables.

|  |
| --- |
| Employee class |
| Code: |
| using System;  using System.Collections.Generic;  //AUTHOR:PALURU MOUNIKA//  //PUPOSE:EMPLOYEE CLASS WITH 3 PUBLIC VARIABLES//  namespace Day7Project3  {  class Employee  {  public int empid;  public string name;  public int salary;  }  internal class Program  {  static void Main(string[] args)  {  Employee emp = new Employee();  emp.empid = 29;  emp.name = "mounika";  emp.salary = 30000;  //{empid =26; name ="vaishu, age= 21, salary=30000"};  Console.WriteLine($"empid= {emp.empid}, name={emp.name}, salary={emp.salary}");  Console.ReadLine();  }  }  } |
| Output: |
|  |

6.Creat employee array obeject and intilize with 5 employees

Using 1.for loop

2.foreach

3.lamda

|  |
| --- |
| Employee class |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  //AUTHOR:PALURU MOUNIKA//  //PURPOSE:EMPLOYEE ARRAY OBJECT AND INTIALIZE WITH 5VALUES//  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*//  namespace Day7Project4  {  class Employee  {  public int id;  public string name;  public int salary;  }  internal class Program  {  static void Main(string[] args)  {  Employee[] employee = new Employee[5];  employee[0] = new Employee() { id = 1, name = "mounika", salary = 5000 };  employee[1] = new Employee() { id = 2, name = "harshini", salary = 4000 };  employee[2] = new Employee() { id = 3, name = "kumari", salary = 1000 };  employee[3] = new Employee() { id = 4, name = "kavitha", salary = 2000 };  employee[4] = new Employee() { id = 5, name = "Pallavi", salary = 8000 };  Console.WriteLine("==========================================================================");  //forloop  for (int i = 0; i < employee.Length; i++)  {  Console.WriteLine($"id={employee[i].id},name={employee[i].name}, salary={employee[i].salary}");  }  Console.WriteLine("==========================================================================");  //foreach loop  foreach (var e in employee)  {  Console.WriteLine($"id ={e.id}, name={e.name}, salary={e.salary}");  }  Console.WriteLine("==========================================================================");  //Lambda Expression  employee.ToList().ForEach(e => Console.WriteLine($"id{e.id}, name={e.name}, salary={e.salary}"));  Console.ReadLine();  }  };  } |
| Output: |
|  |

7. for above project to print employee whp is gettingsalary >5000

Using 1.for loop

2.foeach loop

3lamda

|  |
| --- |
| Employee class |
| Code: |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  namespace Day7project5  {  internal class Program  {  class Employee  {  public int Id;  public string Name;  public int Salary;  }  static void Main(string[] args)  {  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* Author:paluru mounika  \* Purpose:Employee class using Array whose salary >=5000  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  Employee[] emp = new Employee[]  {  new Employee() { Id = 1, Name = "mounika", Salary = 5000 },  new Employee() { Id = 2, Name = "pavani", Salary = 7000 },  new Employee() { Id = 3, Name = "kalyani", Salary = 3000 },  new Employee() { Id = 4, Name = "chandana", Salary = 4000 }  };  //Print the values using for loop  for (int i = 0; i < emp.Length; i++)  {  if (emp[i].Salary >= 5000)  Console.WriteLine($"Id={emp[i].Id},Name={emp[i].Name},Salary={emp[i].Salary}");  }  //Print the values using foreah loop  foreach (var e in emp)  {  if (e.Salary >= 5000)  Console.WriteLine($"Id={e.Id},Name={e.Name},Salary={e.Salary}");  }  //Print values using Lambda Expression  emp.ToList().Where(e => e.Salary >= 5000).ToList().ForEach(e => Console.WriteLine($"Id={e.Id},Name={e.Name},Salary={e.Salary}"));  Console.ReadLine();  }  }  } |
| Output: |
|  |