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| **Day 7 Assignment by M .Pallavi**  **01-02-2022** |

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| Program : Create Employee class with three variables and two methods Read Employee and Print Employee and create an object and call methods |
| Code: |
| using System;  namespace Day7classprograms  {  class employee  { public int id;  public string name;  public int salary;  public void ReadEmployee() //Reading employee details  { 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() //printing employee details  { Console.WriteLine($"id={id},name={name},salary={salary}");  }  }  internal class Program  {  static void Main(string[] args)  {  employee emp1 = new employee();  employee emp2 = new employee();  emp1.ReadEmployee();  emp2.ReadEmployee();  emp1.PrintEmployee();  emp2.PrintEmployee();  }  }  } |
| Ouput:    Program 4: Create below classes:Customer |
| Code:  using System;  namespace pgmClassObjects  {  class customer  {  public int id;  public string name;    public void ReadCustomer()  {  Console.WriteLine("enter id");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter name");  name = Console.ReadLine();  }  public void PrintCustomer()  {  Console.WriteLine($"id={id},name={name}");  }  }  internal class Program  {  static void Main(string[] args)  {  customer c1 = new customer();  c1.ReadCustomer();  c1.PrintCustomer();  }  }  }  Output: |

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| Program 4: Create below classes:product |
| Code:  using System;  namespace pgmOnProductClass  {  class product  {  public string name;  public int price;  public int quantity;  public void ReadProduct()  {    Console.WriteLine("enter product name");  name = Console.ReadLine();  Console.WriteLine("enter price");  price = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter quantity");  quantity = Convert.ToInt32(Console.ReadLine());  }  public void PrintProduct()  {  Console.WriteLine($"name={name},price={price},quantity{quantity}");  }  }  internal class Program  {  static void Main(string[] args)  {  product p1 = new product();  p1.ReadProduct();  p1.PrintProduct();  }  }  } |
| Ouput: |

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| Program 4: Create below classes:seller |
| Code:  using System;  namespace pgmonSeller  {  using System;  class seller  {  public string name;  public int no;  public string location;  public void Readseller()  {  Console.WriteLine("enter seller name");  name = Console.ReadLine();  Console.WriteLine("enter no");  no = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter location");  location = Console.ReadLine();    }  public void Printseller()  {  Console.WriteLine($"name={name},no={no},location={location}");  }  }  internal class Program  {  static void Main(string[] args)  {  seller s1 = new seller();  s1.Readseller();  s1.Printseller();  }  }  } |
| Ouput: |

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| Program 4: Create below classes: Department |
| Code:  using System;  namespace pgmonddepartment  {  using System;  class Department  {  public string name;  public int no;  public string location;  public void Readdept()  {  Console.WriteLine("enter department name");  name = Console.ReadLine();  Console.WriteLine("enter no");  no = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("enter location");  location = Console.ReadLine();  }  public void Printdept()  {  Console.WriteLine($"name={name},no={no},location={location}");  }  internal class Program1  {  static void Main(string[] args)  {  Department d1 = new Department();  d1.Readdept();  d1.Printdept();  }  }  }    } |
| Ouput: |
| Program 5: Create Employee class with 3 public variables. Create Employee object and initialize with values while creating object and print the values. |
| Code:  using System;  namespace ConsoleApp2  {  internal class Program  {  class employee  {  public int id;  public string name;  public int age;  public int salary;  }  static void Main(string[] args)  {  employee e=new employee() { id = 1, name = "rrr",age = 24, salary = 25};    Console.WriteLine($"id={e.id},name={e.name},age={e.age},salary={e.salary}");    }  }  }  Ouput: |

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| Program 6:Create Employee class and now create employees array object and initialize with 5 employees write code using, a. for loop b. foreach loop c. lambda expression |
| Code:  using System;  using System.Linq;  namespace Day7Project5  {  internal class Program  {  class Employee  {  public int empId;  public string empName;  public int empSalary;  }  static void Main(string[] args)  {  Employee[] employees = new Employee[]  {  new Employee(){empId = 1, empName = "pallavi", empSalary = 34000},  new Employee(){empId = 2, empName = "lasya", empSalary = 25000},  new Employee(){empId = 3, empName = "joshna", empSalary =33000},  new Employee(){empId = 4, empName = "anusha", empSalary = 35000},  new Employee(){empId = 5, empName = "Manoj", empSalary = 28000},  new Employee(){empId = 6, empName = "rani", empSalary = 20000}  };  for (int i = 0; i < employees.Length; i++)  {  Console.WriteLine($"Employee ID = {employees[i].empId}, Employee Name = {employees[i].empName}, Employee Salary = {employees[i].empSalary}");  }  foreach (var e in employees)  { Console.WriteLine($"Employee.ID = {e.empId}, Employee.Name = {e.empName}, Employee.Salary = {e.empSalary}");  }    employees.ToList().ForEach(e => Console.WriteLine($"ID = {e.empId}, Name = {e.empName}, Salary = {e.empSalary}"));  Console.ReadLine();  }  } }  Output: |

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| Program 7. For the above project, write code to print employees who is getting salary >=5000 using for loop, foreach loop,lambda expression |
| Code:  using System;  using System.Linq;  namespace Day7Project5  {  internal class Program  {  class Employee  {  public int empId;  public string empName;  public int empSalary;  }  static void Main(string[] args)  {  Employee[] employees = new Employee[]  {  new Employee(){empId = 1, empName = "pallavi", empSalary = 34000},  new Employee(){empId = 2, empName = "lasya", empSalary = 25000},  new Employee(){empId = 3, empName = "joshna", empSalary =33000},  new Employee(){empId = 4, empName = "anusha", empSalary = 35000},  new Employee(){empId = 5, empName = "Manoj", empSalary = 28000},  new Employee(){empId = 6, empName = "rani", empSalary = 20000}  };  Console.WriteLine(" Salary >= 30,000");  for (int i = 0; i < employees.Length; i++)  {  if (employees[i].empSalary >= 30000)  Console.WriteLine($"Employee ID = {employees[i].empId}, Employee Name = {employees[i].empName}, Employee Salary = {employees[i].empSalary}");  }  // Using For Each  Console.WriteLine(" Salary >= 30,000 using For Each Loop");  foreach (var e in employees)  {  if (e.empSalary >= 30000)  Console.WriteLine($"Employee.ID = {e.empId}, Employee.Name = {e.empName}, Employee.Salary = {e.empSalary}");  }  // Using Lambda Expression  Console.WriteLine(" Salary >= 30,000 using Lambda Expression");  employees.ToList().Where(e => e.empSalary >= 30000).ToList().ForEach(e => Console.WriteLine($"ID = {e.empId}, Name = {e.empName}, Salary = {e.empSalary}"));  Console.ReadLine();  }  }  } |
| Ouput:    2.Write the 3 def of class and 4 points about object discussed in the class.  A.A class is group of variables and methods.  A class is a design to create objects.  A class consists of state(variables) and behaviour(methods).  OBJECT:  An object is an instance of class  N number of objects can be created.  Objects are reference types.  **3.Pictorially represent class and multiple objects**  See the source image |