Static Functions

```
//class function code
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
{
  internal class Employee
  {
    public static int empid;
    public static string empname;
    public static string design;
    public static decimal salary;
    public static void getempinfo()
      Console.WriteLine("enter emp details");
      empid = Convert.ToInt32(Console.ReadLine());
       empname = Console.ReadLine();
      design = Console.ReadLine();
       salary = Convert.ToDecimal(Console.ReadLine());
    public static void displayempinfo()
       Console.WriteLine($" empid {empid} name {empname}" +
         $" design {design} salary {salary}");
```

```
}
}
//main function
using System;
using System.Data.SqlClient;
namespace ConsoleApp1
{1
  internal class Program
    static void Main(string[] args)
    {
      //----static
      //On static func declare we can acess without create the obj or instance
      Employee.getempinfo();
      Employee.displayempinfo();
    }
 }
}
```

constructor

```
//constructor name should as same as class , class name

//class always as default constructor

// one class contain one or more constructor called constructor overloading

//always be public

//types -default , parameterized , copy constructor

// otherwise take the priority

// max use for initialize the value for any variable
```

```
//classs program
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
{
  internal class Employee
    int empcomp;
    static Employee()
      Console.WriteLine("static constructor called");
    } // static doesn't need public specifier
    //static take higher priority
    public Employee()
      Console.WriteLine("parameter less or default constructor");
    public Employee(int empid)
      this.empcomp = empid;
      Console.WriteLine($"parameterised constructor {empid}");
    public Employee(int empcomp , string name)
      this.empcomp = empcomp;
      Console.WriteLine($"parametrised invooked \n companyid {empcomp} na
    public Employee (Employee employee)
      this.empcomp = employee.empcomp;
```

```
Console.WriteLine($"copy construtor {empcomp}");
    }
  }
}
//main program
using System;
using System.Data.SqlClient;
namespace ConsoleApp1
{
  internal class Program
  {
    static void Main(string[] args)
      Employee employee = new Employee();
      Employee employee1 = new Employee(20);
      Employee employee2 = new Employee(1, "poornima");
      Employee emp3 = new Employee(employee2);
      Console.ReadLine();
    }
  }
}
```

Inheritance

```
//class porgram
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Text;
using System.Threading.Tasks;
```

```
{
  public class Employee
    public int empid;
    public string empname;
    public string design;
    public decimal salary;
    //constructor
    public Employee(int id, string name, string design, decimal salary)
    {
       this.empid = id;
       this.empname = name;
       this.design = design;
       this.salary = salary;
    //method
    public void displayemp()
       Console.WriteLine($"id {empid} name {empname} " +
         $"design {design} salary{salary}");
    }
  }
  //inheritace
  public class Manager: Employee
  {
    string deprt;
    public Manager(int id, string name, string design, decimal salary, string depi
       base(id, name, design, salary)
    {
       this.deprt = deprt;
    }
    public void displaymanager()
       displayemp();
```

```
Console.WriteLine($"Manager is Managing {deprt}");
    }
  }
}
//main program
using System;
using System.Data.SqlClient;
namespace ConsoleApp1
{
  public class Program
    static void Main(string[] args)
       Manager manager = new Manager(101, "latha", "product engineer", 33242
       manager.displaymanager();
    }
}
```

AccessSpecifier

//public , private , protected

```
// class program

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Text;
```

```
namespace ConsoleApp1
  public class BankAccount
    private string accnum;
    public string accholdername;
    protected double balance;
    public BankAccount(string accnum, string accholdername)
      this.accnum = accnum;
      this.accholdername = accholdername;
      balance = 0.0;
    public void Deposit(double amount)
      this.balance += amount;
    private void ShowAccountNum()
      Console.WriteLine($"Account number ={accnum}");
    protected void ShowBalance()
      Console.WriteLine($"Balance ={balance}");
  class RecurringDeposit: BankAccount
    public int tenureMonth;
    public int amountPerMonth;
    public double maturityAmount;
    public RecurringDeposit(string accnum, string accholdername, int tenureMo
      base(accnum, accholdername)
    {
      this.tenureMonth = tenureMonth;
```

```
this.amountPerMonth = amountPerMonth;
      this.maturityAmount = 0;
    }
    public void GetRDreturn()
      ShowBalance();
      Deposit(34000);
      // ShowAccountNumber();
      double interest = (tenureMonth * amountPerMonth * (tenureMonth + 1) * !
      maturityAmount = (amountPerMonth * tenureMonth) + interest;
      Console.WriteLine($"Total Amount After RD Completed {maturityAmount}
    }
  }
//main program
using System;
using System.Data.SqlClient;
namespace ConsoleApp1
{
  public class Program
    static void Main(string[] args)
       RecurringDeposit recurringDeposit = new RecurringDeposit("001", "Geeth
      recurringDeposit.Deposit(70000);
      recurringDeposit.GetRDreturn();
       Console.ReadLine();
```

}