

# Codethon Solutions

## Codethon-2 Solutions:-

- Problem-1 Employee –

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

```
public class Employee  
{  
    //Write your code here  
    private string empCode,empName;  
    private double empSal;  
    private char deptCode;  
    private static int empCounter = 1000;
```

```
    public Employee(string empName,double empSal,char deptCode)  
    {  
        this.empName = empName;  
        this.empSal = empSal;  
        this.deptCode = deptCode;  
        empCounter++;  
        this.empCode = generateEmployeeCode(deptCode);  
    }
```

```
    public Employee(string empName,double empSal)  
    {  
        this.empName = empName;  
        this.empSal = empSal;  
        this.deptCode = 'A';  
        empCounter++;  
        this.empCode = generateEmployeeCode(deptCode);  
    }
```

```
public string EmpName{
    get{return empName;}
    set{empName=value;}
}
public double EmpSal{
    get{return empSal;}
    set{empSal=value;}
}
public string EmpCode{
    get{return empCode;}
}
public char DeptCode{
    get{return deptCode;}
    set{deptCode=value;}
}

private string generateEmployeeCode(char deptCode)
{
    return empCounter+deptCode.ToString();
}

public string getEmployeeDetails()
{
    return "Code-"+empCode+",Name-"+empName+",Salary-
"+empSal.ToString()+" ,Department-"+deptCode.ToString();
}

}
```

- **CD 2- Problem-2 Product :-**

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

public class Product {
    //Write your code here
    private String productCode, productName;
    private double productPrice;
    private char categoryCode;
    private static int prodCounter = 100;

    private String generateProductCode()
    {
        prodCounter++;
        return String.Concat(this.categoryCode, Convert.ToString(prodCounter));
    }

    public String getProductDetails()
    {
        return String.Format("Code-{0},Name-{1},Price-{2},Category-{3}",this.productCode,
this.productName, this.productPrice, this.categoryCode);
    }

    public Product() {}

    public Product(String productName, double productPrice, char categoryCode) {
        this.productName = productName;
        this.productPrice = productPrice;
        this.categoryCode = categoryCode;
        this.productCode = generateProductCode();
    }

    public Product(String productName, double productPrice) {
        this.productName = productName;
        this.productPrice = productPrice;
        this.categoryCode = 'E';
        this.productCode = generateProductCode();
    }
}
```

```

    public String ProductCode {
        get {return productCode; }
        set {productCode = value; }
    }

    public String ProductName {
        get {return productName; }
        set {productName = value; }
    }

    public double ProductPrice {
        get {return productPrice; }
        set {productPrice = value; }
    }

    public char CategoryCode {
        get {return categoryCode; }
        set {categoryCode = value; }
    }
}

class Example {
    public static void Main() {
        Product p=new Product("Laptop",45000.00, 'E');
        Console.WriteLine(p.getProductDetails());
    }
}

```

- **CD 2 Problem-3 Player:-**

```

class Player
{
    string name;
    string country;
    int age;
    DateTime doj;

    public string Name
    { get { return name; } set { name = value; } }
}

```

```

public string Country
{ get { return country; } set { country = value; } }

public int Age
{
    get { return age; }
    set { age = value; }
}

public DateTime Doj { get { return doj; } set { doj = value; } }

public Player() { }

public Player(string name, string country, int age, DateTime doj)
{
    this.name = name;
    this.country = country;
    this.age = age;
    this.doj = doj;
}

public override string ToString()
{
    return "Name-" + Name + ",Country-" + Country + ",Age-" + Age;
}

public bool Equals(Player p)
{
    if (this.name.ToLower() == p.name.ToLower() & this.country.ToLower() ==
p.country.ToLower())
        return true;
    else
        return false;
}
}

```

## Codethon-3 Solutions:-

- CD3 Problem-1 Cab –

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

```
class Cab
{
    //Write your code here
    private string cid,regNo,type;
    private int capacity;
    private double costPerKm;
    public string Cid
    {
        get{return cid;}
        set{cid=value;}
    }
    public string Type
    {
        get{return type;}
        set{type=value;}
    }
    public string RegNo
    {
        get{return regNo;}
        set{regNo=value;}
    }
    public int Capacity
    {
        get{return capacity;}
        set{capacity=value;}
    }
    public double CostPerKm
    {
        get{return costPerKm;}
        set{costPerKm=value;}
    }
    public Cab()
```

```

{
}
public Cab(string cid,string regno,string type,int capacity,double costPerKm)
{
    this.regNo=regno;
    this.cid=cid;
    this.type=type;
    this.capacity=capacity;
    this.costPerKm=costPerKm;

}

public override string ToString()
{
    //Write your code here
    return
"RegistrationNumber:"+RegNo+"VehicleType:"+Type+"Capacity:"+Capacity+"CostPerKm:"+
CostPerKm+"";
}

public bool Equals(Cab c)
{
    //Write your code here

    if(this.RegNo.ToLower()==c.RegNo.ToLower() &&
this.Type.ToLower()==c.Type.ToLower())
    {
        return true;
    }
    else
        return false;

}

}

```

- **CD3 Problem-2 Movie –**

```

using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;

```

```

class Movie
{
    private string name;
    private string moviId;
    private string director;
    private int rating;
    private DateTime releaseDate=new DateTime();

    public string Name{
        get{return name;}
        set{name=value;}
    }
    public string MoviId{
        get{return moviId;}
        set{moviId=value;}
    }
    public string Director{
        get{return director;}
        set{director=value;}
    }
    public int Rating{
        get{return rating;}
        set{rating=value;}
    }
    public DateTime ReleaseDate{
        get{return releaseDate;}
        set{releaseDate=value;}
    }
    public Movie(){}
    public Movie(string name,string moviId,string director,int rating,
        DateTime releaseDate){
        this.name=name;
        this.moviId=moviId;
        this.director=director;
        this.rating=rating;
        this.releaseDate=releaseDate;
    }
    //Write your code here
    public override string ToString()
    {
        //Write your code here.
        return "Name:"+name+"\n"+
            "MoviId:"+moviId+"\n"+

```



```

        "Director:"+director+"\n"+
        "Rating:"+rating+"\n"+
        "ReleaseDate:"+releaseDate;
    }

    public bool Equals(Movie m)
    {
        //Write your code here
        if((this.name.ToLower()==m.name.ToLower())
            &&(this.movieId.ToLower()==m.movieId.ToLower()))
            return true;
        else
            return false;
    }
}

```

- **CD3 Problem-3 Product :-**

```

using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;

class Product
{
    //Write your code here
    private string name,productCode,brandName;
    private int stockLeft;
    private double price;
    private DateTime expiryDate;

    public string Name{
        get{return name;}
        set{name=value;}
    }

    public string ProductCode{
        get{return productCode;}
        set{productCode=value;}
    }

    public string BrandName{

```

```

        get{return brandName;}
        set{brandName=value;}
    }
    public int StockLeft{
        get{return stockLeft;}
        set{stockLeft=value;}
    }
    public double Price{
        get{return price;}
        set{price=value;}
    }
    public DateTime ExpiryDate{
        get{return expiryDate;}
        set{expiryDate=value;}
    }
    public Product(){}

    public Product(string name,string productCode,string brandName,int stockLeft,double
price, DateTime expiryDate){
        this.name=name;
        this.productCode=productCode;
        this.brandName=brandName;
        this.stockLeft=stockLeft;
        this.price=price;
        this.expiryDate=expiryDate;
    }

    public override string ToString()
    {
        //Write your code here
        return
        "Name:"+Name+"\n"+"ProductCode:"+ProductCode+"\n"+"BrandName:"+BrandName+"\n"
        +"StockLeft:"+StockLeft.ToString()+"\n"+"Price:"+Price.ToString()+"\n"+"ExpiryDate:"+Expiry
        Date.ToString();

    }

    public bool Equals(Product p)
    {

```

```

//Write your code here
if(this.Name.ToLower()==p.Name.ToLower() &&
this.ProductCode.ToLower()==p.ProductCode.ToLower()){
    return true;
}
else{
    return false;
}
}
}

```

## Codethon-4 Solutions:-

- CD4 Problem-1 Product and Shop Class –

```

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6 using System.Collections;
7
8 class Product
9 {
10     public string ProductCode,Name,Brand;
11     public double Price;
12     //Write your code here
13     public Product () {
14
15     }
16     public Product(string prodcode,string name, double price, string brand) {
17         this.ProductCode=prodcode;
18         this.Name=name;
19         this.Price=price;
20         this.Brand=brand;
21     }
22
23 }
24 class Shop
25 {

```

```

28 public List<Product> ProdList = new List<Product>();
29
30 public Shop() {
31 }
32
33 public Shop(string name, List<Product> productList) {
34     this.Name=name;
35     this.ProdList=productList;
36 }
37
38 public void AddProductToShop(Product p)
39 {
40     //Write your code here
41     int flag=0;
42     foreach(var str in ProdList) {
43         if(str.Name==p.Name && str.ProductCode==p.ProductCode) {
44             flag=1;
45         }
46     }
47     if(flag==0) {
48         ProdList.Add(p);
49     }
50
51 }
52 public bool RemoveProductFromShop(string productCode)
53 {
54     //Write your code here

```

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```

st) {
    if(str.ProductCode==productCode) {

```

that

```

60 }
61 }
62 return false;
63 }
64
65 }
66 class ProductBO
67 {
68     public List<Product> ProdList2 = new List<Product>();
69     public List<Product> ProdList3 = new List<Product>();
70     public List<Product> FindProduct(List<Product> productList, string brand)
71     {
72         //Write your code here
73
74         foreach( var str in productList) {
75             if(str.Brand==brand) {
76                 ProdList2.Add(str);
77             }
78         }
79         return ProdList2;
80
81     }
82
83     public List<Product> FindProduct(List<Product> productList, double price)

```

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```

86      |
87      |     foreach( var str in productList) {
88      |         |         if(str.Price==price) {
89      |             |         ProdList3.Add(str);
90      |         |         }
91      |         |     }
92      |     return ProdList3;
93      | }
94      |
95      |     public Hashtable BrandWiseCount(List<Product> productList )
96      |     {
97      |         |
98      |         |         Hashtable ht1 = new Hashtable();
99      |         |         //Write your code here
100     |         |         return ht1;
101     |         |
102     |         |
103     |         |     }
104     |     }

```

 10 revisions found for this solution.

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[NEXT PROBLEM >](#)

- CD4 Problem-2 Passenger and Cab Class –

```

6
7
8 class Passenger
9 {
10     //Write your code here
11     public string Pid,Name,Email;
12     public int ContactNo;
13
14 }
15
16 class Cab
17 {
18     //Write your code here
19     public string Cabid;
20     public string RegNo;
21     public string Type;
22     public int Capacity;
23     public double CostPerKm;
24     public List<Passenger> PassengerList= new List<Passenger>();
25
26     public Cab(){
27
28     }
29     public Cab(string cabid,string regno,string type,int capacity,double cost,List<Passenger> PassengerList)
30     {
        this.Cabid=cabid;

```

```

23     public double CostPerKm;
24     public List<Passenger> PassengerList= new List<Passenger>();
25
26     public Cab(){
27
28     }
29     public Cab(string cabid,string regno,string type,int capacity,double cost,List<Passenger> PassengerList)
30     {
        this.Cabid=cabid;
        this.RegNo=regno;
        this.Type=type;
        this.Capacity=capacity;
        this.CostPerKm=cost;
        this.PassengerList=PassengerList;
31
32    }
33
34     public void AddPassengerToCab(Passenger p)
35     {
36         //Write your code here
37         if(!PassengerList.Contains(p))
38             PassengerList.Add(p);
39     }
40
41     public bool RemovePassengerFromCab(string id)
42     {
43         //Write your code here
44
45     }
46

```



cab class

enger p): This method  
passenger to the passenger  
th same id and name already  
not be added to the list.

tring id): This method will  
passenger with specified id  
ven id is found, then  
enger with id is not

hods:

ing type): This  
parameter. This  
list of cabs that

```
37     }
38     public void AddPassengerToCab(Passenger p)
39     {
40         //Write your code here
41         if(!PassengerList.Contains(p))
42             PassengerList.Add(p);
43     }
44     public bool RemovePassengerFromCab(string id)
45     {
46         //Write your code here
47         foreach(var p in PassengerList){
48             var code=p.Pid;
49             if(code==id){
50                 PassengerList.Remove(p);
51                 return true;
52             }
53         }
54         return false;
55     }
56
57
58
59 }
60
61 class CabBO
62 {
63
64     public List<Cab> FindCab(List<Cab> cablist, string type)
65     {
```

e as input parameter. This  
returns a list of cabs that

blList, int capacity): This  
s input parameter. This  
turns a list of cabs that

Cab> cabList): This  
bject that contains

```
62     {
63         public List<Cab> FindCab(List<Cab> cablist, string type)
64         {
65             //Write your code here
66             var list=new List<Cab>();
67             foreach(var cab in cablist){
68                 if(cab.Type==type){
69                     list.Add(cab);
70                 }
71             }
72             return list;
73         }
74     }
75     public List<Cab> FindCab(List<Cab> cablist, int capacity)
76     {
77         //Write your code here
78         var list=new List<Cab>();
79         foreach(var cab in cablist){
80             if(cab.Capacity==capacity){
81                 list.Add(cab);
82             }
83         }
84         return list;
85     }
86
87     public Hashtable CapacityWiseCount(List<Cab> cablist)
88     {
89         Hashtable ht = new Hashtable();
90         //Write your code here
91         return ht;
92     }
93 }
```

## Final Assesment Webinar Codes:-

### Question-1 (OOPs):-

```
class Player
```

```
{
```

```
    string name;
```

```
    string country;
```

```
    int age;
```

```
    DateTime doj;
```

```
    public string Name
```

```
    { get { return name; } set { name = value; } }
```

```
    public string Country
```

```
    { get { return country; } set { country = value; } }
```

```
    public int Age
```

```
{
```

```
    get { return age; }
```

```
    set { age = value; }
```

```
}
```

```
    public DateTime Doj { get { return doj; } set { doj = value; } }
```

```
    public Player() { }
```

```
    public Player(string name, string country, int age, DateTime doj)
```

```
{
```

```
    this.name = name;
```

```
    this.country = country;
```

```
    this.age = age;
```



```
    this.doj = doj;  
}
```

```
public override string ToString()
```

```
{  
    return "Name-" + Name + ",Country-" + Country + ",Age-" + Age;  
}
```

```
public bool Equals(Player p)
```

```
{  
    if (this.name.ToLower() == p.name.ToLower() & this.country.ToLower() == p.country.ToLower())  
        return true;  
    else  
        return false;  
}  
}
```

```
public override string ToString()
```

```
{  
    return "Name-" + Name + ",Country-" + Country + ",Age-" + Age;  
}
```

```
public bool Equals(Player p)
```

```
{  
    if (this.name.ToLower() == p.name.ToLower() & this.country.ToLower() == p.country.ToLower())  
        return true;  
    else  
        return false;  
}}}
```

- **Question-2 (Collections) :-**

```
class Player
{
    public string Fname;
    public string Lname;
    public string Country;
    public int Rating;
}

class Match
{
    public List<Player> team1 = new List<Player>();
    public List<Player> team2 = new List<Player>();
    public Match(List<Player> l1, List<Player> l2)
    {
        this.team1 = l1;
        this.team2 = l2;
    }
    public Match() { }

    public void AddPlayer(Player p, string team)
    {
        if (team == "Team1")
            team1.Add(p);
        if (team == "Team2")
            team2.Add(p);
    }

    public bool RemovePlayer(string fname)
    {
        bool flag;
        Player p1 = team1.Find(x => x.Fname == fname);
        Player p2 = team2.Find(x => x.Fname == fname);
        if (p1 == null & p2 == null)
        {
            flag = false;
        }
        else
```

```

    {
        if (p1 != null)
            team1.Remove(p1);
        if (p2 != null)
            team2.Remove(p2);
        flag = true;
    }
    return flag;
}
}

```

class MatchBO

```

{
    public List<Player> FindPlayer(List<Player> playerList, string country)
    {
        List<Player> l1 = playerList.FindAll(x => x.Country == country);
        return l1;
    }
    public List<Player> FindPlayer(List<Player> playerList, int rating)
    {
        List<Player> l1 = playerList.FindAll(x => x.Rating == rating);
        return l1;
    }
    public Hashtable CountryWiseCount(List<Player> playerList)
    {
        Hashtable ht = new Hashtable();
        var res = from p in playerList
                    group p by p.Country into grp
                    select new { Country = grp.Key, Cnt = grp.Count() };
        foreach( var x in res)
        {
            ht.Add(x.Country, x.Cnt);
        }
        return ht;
    }
}
}

```

---END---

## Collections- Product

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Collections;
namespace Practice_2
{
    class Product
    {
        public string ProductCode, Name, Brand;
        public double Price;

        public Product() { }
        public Product(string prodcode, string name, double price, string brand)
        {
            ProductCode = prodcode;
            Name = name;
            Price = price;
            Brand = brand;
        }
    }

    class Shop
    {
        string Name;
        List<Product> Prodlist = new List<Product>();

        public Shop() { }
        public Shop(string name, List<Product> productlist)
        {
            Name = name;
            Prodlist = productlist;
        }

        public void AddproductToShop(Product p)
        {
            int flag = 0;
            foreach (var str in Prodlist)
            {
                if (str.ProductCode == p.ProductCode && str.Name == p.Name)
                {
                    flag = 1;
                }
            }
            if (flag == 0)
                Prodlist.Add(p);
        }

        public bool RemoveProductFromShop(string productCode)
        {
            foreach (var str in Prodlist)
            {
                if (str.ProductCode == productCode)
                {
                    Prodlist.Remove(str);
                }
            }
        }
    }
}
```

```

        return true;
    }
}

return false;
}
}

class ProductBO
{
    public List<Product> FindProduct(List<Product> prodlist, string brand)
    {
        List<Product> prod4 = new List<Product>();
        foreach (var str in prodlist)
        {
            if (str.Brand == brand)
                prod4.Add(str);
        }

        return prod4;
    }
    public List<Product> FindProduct(List<Product> prodlist, double price)
    {
        List<Product> prod2 = new List<Product>();
        foreach (var str in prodlist)
        {
            if (str.Price == price)
                prod2.Add(str);
        }

        return prod2;
    }

    public Hashtable BrandWiseCount(List<Product> productList)
    {
        Hashtable ht = new Hashtable();
        var res = from p in productList
                   group p by p.Brand into brand
                   select new {Brand=brand.Key,Cnt=brand.Count() };

        foreach(var x in res)
        {
            ht.Add(x.Brand, x.Cnt);
        }

        return ht;
    }
}
}

```

## Collections- Movie/Theatre

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

namespace Practice_2
{
    class Movie
    {
        public string MovieId;
        public string Name;
        public int Rating;
        public string Language;
        public Movie() { }

        public Movie(string MovieId, string Name, int Rating, string Language)
        {
            this.MovieId = MovieId;
            this.Name = Name;
            this.Rating = Rating;
            this.Language = Language;
        }
    }

    class Theatre
    {
        public string Name;
        public List<Movie> MovieList = new List<Movie>();

        public Theatre() { }
        public Theatre(string Name, List<Movie> MovieList)
        {
            this.Name = Name;
            this.MovieList = MovieList;
        }

        public void AddMovieToTheatre(Movie m)
        {
            int flag = 0;
            foreach(var mov in MovieList)
            {
                if(mov.Name==m.Name && mov.Language==m.Language)
                {
                    flag = 1;
                }
            }

            if(flag==0)
            {
                MovieList.Add(m);
            }
        }

        public bool UpdateMovie(string movieid, int newrating)
        {
            foreach(var mov in MovieList)
```

```

        {
            if(mov.MovieId==movieid)
            {
                mov.Rating = newrating;
                return true;
            }
        }
        return false;
    }
}

class MovieBo
{
    public List<Movie> FindMovie(List<Movie> MovieList,string Language)
    {
        List<Movie> List = new List<Movie>();
        foreach(var mov in MovieList)
        {
            if(mov.Language==Language)
            {
                List.Add(mov);
            }
        }
        return List;
    }

    public List<Movie> FindMovie(List<Movie> MovieList, int Rating)
    {
        List<Movie> List = new List<Movie>();
        foreach (var mov in MovieList)
        {
            if (mov.Rating == Rating)
            {
                List.Add(mov);
            }
        }
        return List;
    }

    public Hashtable LanguageWiseCount(List<Movie> MovieList)
    {
        Hashtable ht = new Hashtable();
        var res = from m in MovieList
                   group m by m.Language into lang
                   select new {Movie=lang.Key,Cnt=lang.Count()};
        foreach(var x in res)
        {
            ht.Add(x.Movie, x.Cnt);
        }

        return ht;
    }
}
}

```

## Collections- Student

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

namespace Practice_2
{
    class Student
    {
        public string Name { get; set; }
        public int Score { get; set; }
    }

    class StudentImplementation
    {
        public StudentImplementation() { }

        public string NameofAllStudents(IList<Student> students)
        {
            string ans = "";
            foreach(Student s in students)
            {
                Console.WriteLine(s.Name);
                ans = ans + s.Name + " ";
            }

            return ans;
        }

        public int TotalScoreOfAllStudents(IList<Student> students)
        {
            int res = 0;
            foreach(Student s in students)
            {
                res = res + s.Score;
            }
            Console.WriteLine(res);
            return res;
        }

        public double AverageScore(IList<Student> students)
        {
            double res = 0;
            double i = 0;
            double average = 0;
            foreach(Student s in students)
            {
                i++;
                res = res + s.Score;
            }
            if(i!=0)
                average = res / i;
            Console.WriteLine(res);
            return average;
        }
    }
}
```





## Collections- Player

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

namespace Practice1
{
    class Player
    {
        public string Fname, Lname, Country;
        public int Rating;
    }

    class Match
    {
        public List<Player> team1 = new List<Player>();
        public List<Player> team2 = new List<Player>();

        public Match() { }

        public Match(List<Player>team1,List<Player>team2)
        {
            this.team1 = team1;
            this.team2 = team2;
        }
        public void AddPlayer(Player p, string team)
        {
            if(team == "Team1")
            {
                team1.Add(p);
            }
            if (team == "Team2")
            {
                team2.Add(p);
            }
        }

        public bool RemovePlayer(string fname)
        {
            bool flag;
            Player p1 = team1.Find(x => x.Fname == fname);
            Player p2 = team2.Find(x => x.Fname == fname);
            if(p1==null && p2==null)
            {
                flag = false;
            }
            else
            {
                if(p1!=null)
                {
                    team1.Remove(p1);
                }
                if (p2 != null)
                {
                    team1.Remove(p2);
                }
            }
        }
    }
}
```

```

        flag = true;
    }
    return flag;
}
}

class MatchBo
{
    public List<Player>FindPlayer(List<Player>playerList,string country)
    {
        List<Player> playerList1 = new List<Player>();
        foreach(var player in playerList)
        {
            if(player.Country==country)
            {
                playerList1.Add(player);
            }
        }
        return playerList1;
    }

    public List<Player>FindPlayer(List<Player>playerList,int rating)
    {
        List<Player> playerList2 = new List<Player>();
        foreach(var player in playerList)
        {
            if(player.Rating==rating)
            {
                playerList2.Add(player);
            }
        }
        return playerList2;
    }

    public Hashtable CountryWiseCount(List<Player> playerlist)
    {
        Hashtable ht = new Hashtable();

        var res = from p in playerlist
                   group p by p.Country into country
                   select new { Country=country.Key,Cnt=country.Count()};

        foreach(var x in res)
        {
            ht.Add(x.Country, x.Cnt);
        }
        return ht;
    }
}
}

```