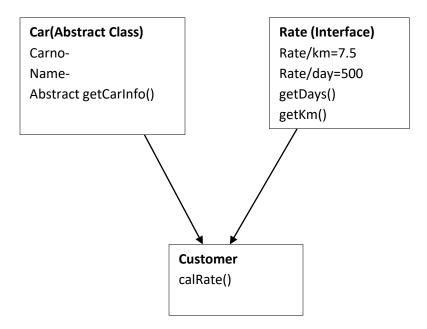
1. Write a program to perform following interface.



Display all info about Customer, Car, Km, Days and Total Amount.

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

namespace P401
{
    public abstract class CarDetails
    {
        public String carname;
        public String carnumber;
        abstract public void Getcarinfo(string carname,
        string carnumber);
    }
    public interface RateDetails
    {
```

```
void getdays();
    void getkm();
}
class Program : CarDetails, RateDetails
{
    private float rate km = 7.7f;
    private float rate day = 500;
    public int getday;
    public int getkm;
   public override void Getcarinfo(string carname,
    string carnumber)
    {
        String Carname = carname;
        String Carnumber = carnumber;
         Console.WriteLine("Car Name : {0} ",
         Carname);
        Console.WriteLine("Car Number : {0} ",
        Carnumber);
    }
    public void get day()
    {
        Console.WriteLine("Enter Number of days");
         getday =
         Convert.ToInt32(Console.ReadLine());
        //Console.WriteLine(rate day);
    }
    public void get km()
    {
        Console.WriteLine("Enter Killo Meter");
        getkm = Convert.ToInt32(Console.ReadLine());
    }
```

public void getdays()

Interface and multithreading

```
throw new NotImplementedException();
        }
        void RateDetails.getkm()
        {
            throw new NotImplementedException();
        }
        public void calrate()
        {
            float ratekm = rate km * getkm;
            float rateday = rate day * getday;
            float total = ratekm + rateday;
             Console.WriteLine("Total Km Rate : {0} ",
             ratekm);
            Console.WriteLine("Total Day Rate : {0} ",
            rateday);
            Console.WriteLine("Total Amount of Journy :
            {0} ", total);
        static void Main(string[] args)
        {
            Program c = new Program();
            c.Getcarinfo("Hundai", "GJ33A0300");
            c.get day();
            c.get km();
            c.calrate();
            Console.ReadKey();
        }
   }
}
```

0/P:-

```
■ file///C:/Users/yash/Documents/Visual Studio 2010/Projects/Pratical4/P401/P401/bin/Debug/P401.EXE 

Car Name : Hundai
Car Number : G333A0300
Enter Number of days

Enter Killo Meter

5
Total Km Rate : 38.5
Total Day Rate : 2500
Total Amount of Journy : 2538.5
```

2.W.A.P. having two threads one thread display Alphabets @ every 2 seconds and another thread display numbers from 1 to 20 @ every 1 second.

```
using System;
using System.Collections.Generic;
using System.Text;
using System.Threading;
namespace ThreadDemo
class Program
    public static void CallToChildThread()
{
try
{
Console.WriteLine("Child thread starts");
// do some work, like counting to 10
for (char i ='A'; i <= 'Z'; i++)
{
Console.WriteLine(i);
Thread.Sleep(2000);
Console.WriteLine("Alphabeat Thread Complete");
```

```
catch (ThreadAbortException e)
Console.WriteLine("Thread Abort Exception");
finally
Console.WriteLine("Couldn't catch the Thread
Exception");
}
}
    public static void Call()
        try
        {
            Console.WriteLine("Child thread starts");
            // do some work, like counting to 10
            for (int i = 1; i <= 20; i++)
            {
                Console.WriteLine(i);
                Thread.Sleep(1000);
            Console.WriteLine("Number Thread Complete");
        catch (ThreadAbortException e)
        {
            Console.WriteLine("Thread Abort Exception");
        finally
            Console.WriteLine("Couldn't catch the Thread
Exception");
```

Pratical-4

Interface and multithreading

```
}

static void Main(string[] args)
{
ThreadStart childref = new
ThreadStart(CallToChildThread);
Thread childThread = new Thread(childref);
ThreadStart ch= new ThreadStart(Call);
Thread child= new Thread(ch);
childThread.Start();
child.Start();
Console.ReadKey();
}
}
```

Pratical-4

O/P:-

```
Child thread starts
Child thread starts
12
13
14
15
16
17
18
19
20
.
Number Thread Complete
Couldn't catch the Thread Exception
```

3 Write a c# program to perform stack operation.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Collections;
namespace GCG
{
    class GCG
    {
        static void Main(string[] args)
        {
            Stack my stack = new Stack();
            my stack.Push("Yash");
            my stack.Push("Patel");
            my stack.Push('A');
            my stack.Push(null);
            my stack.Push(1234);
            my stack.Push(490.98);
            my stack.Pop();
            foreach (var elem in my stack)
            {
                Console.WriteLine(elem);
              if (my stack.Contains(1234) == true)
             {
               Console.WriteLine("Element is
               found...!!");
             }
        else
        {
```

```
Console.WriteLine("Element is not
               found...!!");
         }
                Console.ReadKey();
         }
    }
}
O/P:-
file:///C:/Users/yash/Documents/Visual Studio 2010/Projects/Pratical4/GCG/GCG/bin/Debug/GCG.EXE
Patel
Element is found...!!
4 Write a c# program to perform queue operation.
using System;
using System.Collections;
class GFG
    public static void Main()
    {
         Queue myQueue = new Queue();
         myQueue.Enqueue("one");
          Console.Write("Total number of elements in the
          Queue are : ");
         Console.WriteLine(myQueue.Count);
         myQueue.Enqueue("two");
          Console.Write("Total number of elements in the
          Queue are : ");
         Console.WriteLine(myQueue.Count);
```

```
myQueue.Enqueue("three");
          Console.Write("Total number of elements in the
          Queue are : ");
         Console.WriteLine(myQueue.Count);
         myQueue.Enqueue("four");
          Console.Write("Total number of elements in the
          Queue are : ");
         Console.WriteLine(myQueue.Count);
         myQueue.Enqueue("five");
          Console.Write("Total number of elements in the
          Queue are : ");
         Console.WriteLine(myQueue.Count);
         myQueue.Enqueue("six");
          Console.Write("Total number of elements in
          the Queue are : ");
         Console.WriteLine(myQueue.Count);
         Console.ReadKey();
    }
0/P:-
file:///C:/Users/yash/Documents/Visual Studio 2010/Projects/Pratical4/GCG/GCG/bin/Debug/GCG.EXE
Total number of elements in the Queue are : 1
Total number of elements in the Queue are : 2
Total number of elements in the Queue are : 3
Total number of elements in the Queue are : 4
Total number of elements in the Queue are : 5
Total number of elements in the Queue are : 6
5 Write a c# program to perform array List.
using System;
using System.Collections;
class GFG
{
    public static void Main()
```

```
ArrayList myArryList = new ArrayList();
         myArryList.Add(1);
         myArryList.Add("Two");
         myArryList.Add(3);
         myArryList.Add(4.5f);
         int firstElement = (int)myArryList[0];
         string secondElement = (string)myArryList[1];
         int thirdElement = (int)myArryList[2];
         float fourthElement = (float)myArryList[3];
         myArryList.Remove(100);
         foreach (var item in myArryList)
              Console.WriteLine(item);
         Console.ReadKey();
    }
0/P:-
                                                               - 🗇 X
🔟 file:///C:/Users/yash/Documents/Visual Studio 2010/Projects/Pratical4/GCG/GCG/bin/Debug/GCG.EXE
```