Task 1

```
namespace oop_task_1_cis
{   public class Car
{
public string model;
public string brand;
public int year;

}
internal class Program
{
    static void Main(string[] args)
    {
       Car c1 = new Car();
        c1.model = "Mustang";
        c1.brand = "Ford";
        c1.year = 2020;
        Car c2 = new Car();
        c2.model = "Civic";
        c2.brand = "Honda";
        c2.year = 2021;
        Car c3 = new Car();
        c3.model = "Corolla";
        c3.brand = "Toyota";
        c3.year = 2022;
        Console.WriteLine("first car is: " + c1.model + " " + c1.brand + " " + c1.year);
        Console.WriteLine("second car is: " + c2.model + " " + c2.brand + " " + c2.year);
        Console.WriteLine("Third car is:" + c3.model + " " + c3.brand + " " + c3.year);
    }
}

}
```

Task 2

```
using System;
namespace oop_task_1_cis
{   class Car
{
string model;
string brand;
```

```
int year;
public static int carCount = 0;
public Car(string brand, string model, int year)
{
this.brand = brand;
this.model = model;
this.year = year;
carCount++;
}
public void EngineStart()
{
Console.WriteLine("Engine started!!");
}
public void EngineStop()
{
Console.WriteLine("Engine stopped!!");
}
}
internal class Program
{
static void Main(string[] args)
{
Car c1 = new Car("Ford" ,"Mustang",2020 );
Car c2 = new Car("Honda","Civic", 2021);
Console.WriteLine("Total number of cars: " + Car.carCount);
c1.EngineStart();
c2.EngineStop();
}
}
}
```

Task 3

```
using System;
namespace oop_task_1_cis
{   class Car
{
string model;
string brand;
int year;
public Car(string brand, string model, int year)
{
```

```
this.brand = brand;
this.model = model;
this.year = year;
}
public Car()
{
this.brand = "Unknown";
this.model = "Unknown";
this.year = 0;
}
public Car(Car R)
{
this.brand = R.brand;
this.model = R.model;
this.year = R.year;
}
public void Print()
{
Console.WriteLine("Brand: " + brand);
Console.WriteLine("Model: " + model);
Console.WriteLine("Year: " + year);
}

}
internal class Program
{
   static void Main(string[] args)
   {
      Car c1 = new Car("Ford", "Mustang", 2020);
      Car c2 = new Car();
      Car c3 = new Car(c1);
      Car c4 = new Car("Toyota", "Corolla", 2018);
      Car c5 = new Car("Honda", "Civic", 2021);
      c1.Print();
      c2.Print();
      c4.Print();

   }

}


}
```

Task 4

```
using System;
namespace oop_task_1_cis
{   class Car
{
string model;
string brand;
int year;

   public string Model
    { set { model = value; }
        get { return model; }

    }
    public string Brand
    { set { brand = value; }
    get { return brand; }
    }

    public int Year
    {
        set
        {
            if (value < 1886)
            {
                Console.WriteLine("Year cannot be less than 1886");
            }
            else
            {
                year = value;
            }
        }
        get { return year; }
    }


public void Print()
{
Console.WriteLine("Brand: " + brand);
Console.WriteLine("Model: " + model);
Console.WriteLine("Year: " + year);
}
```

```
}
internal class Program
{
    static void Main(string[] args)
    { Car c1 = new Car();
        Console.WriteLine("Please enter the car brand");
        c1.Brand = Console.ReadLine();
        Console.WriteLine("Please enter the car model");
        c1.Model = Console.ReadLine();
        Console.WriteLine("Please enter the car year");
        c1.Year= int.Parse(Console.ReadLine());
        c1.Print();

    }

}


}
```