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Assessment, Spring 2021,
Section: 14A
Course Title: State of Art Programming Sessional

Answer to the question no: 1

```
using System;

namespace Najmul_Hossain_14A_4027
{
    class Program
    {
        static void Main(string[] args)
        {
            Scooter scooter = new Scooter();
            scooter.ScooterType();

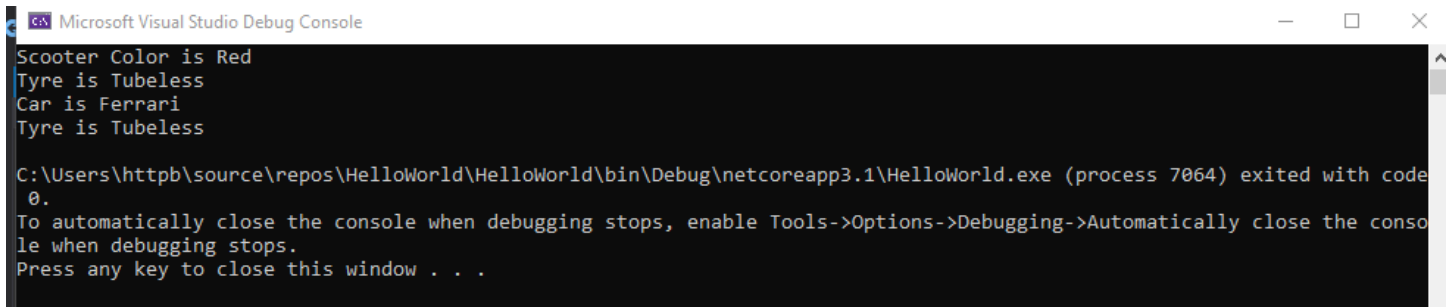
            Car car = new Car();
            car.CarType();
        }
    }
    class Tyre
    {
        protected void TyreType()
        {
            Console.WriteLine("Tyre is Tubeless");
        }
    }
    class Scooter : Tyre
    {
        public void ScooterType()
        {
            Console.WriteLine("Scooter Color is Red");
            TyreType();
        }
    }
    class Car : Tyre
    {
        public void CarType()
        {
```

```

        Console.WriteLine("Car is Ferrari");
        TyreType();
    }
}
}

```

Output:



The screenshot shows the Microsoft Visual Studio Debug Console window. The output of the program is displayed as follows:

```

Scooter Color is Red
Tyre is Tubeless
Car is Ferrari
Tyre is Tubeless

```

Below the output, a message indicates that the application has exited with code 0:

```

C:\Users\httpb\source\repos\HelloWorld\HelloWorld\bin\Debug\netcoreapp3.1\HelloWorld.exe (process 7064) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

```

Answer to the question no: 2

```

using System;

namespace Najmul_Hossain_14A_4027_Absract_method
{
    class Program
    {
        static void Main(string[] args)
        {
            childclass chc = new childclass();
            chc.sum();
        }
    }
}

abstract class baseclass
{
    public int numb = 27;
    public abstract void sum();
}

class childclass : baseclass
{
    public override void sum()

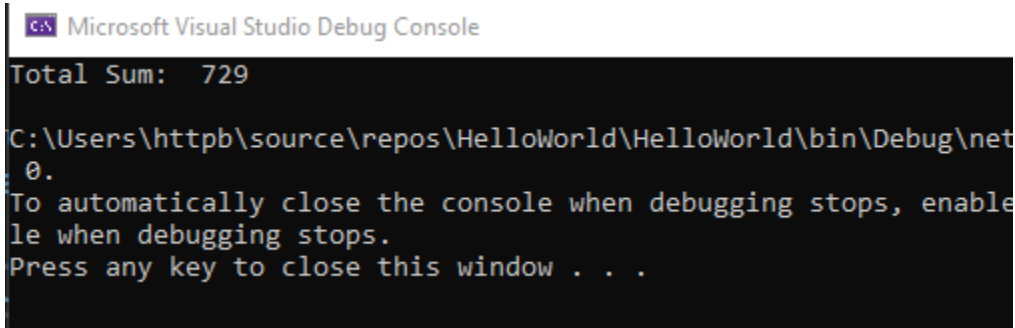
```

```

{
    Console.WriteLine("Total Sum: " + numb * numb);
}
}

```

Output:



```

Microsoft Visual Studio Debug Console
Total Sum: 729

C:\Users\httpb\source\repos\HelloWorld\HelloWorld\bin\Debug\net
0.
To automatically close the console when debugging stops, enable
le when debugging stops.
Press any key to close this window . . .

```

Answer to the question no: 3

using System;

namespace Najmul_Hossain_14A_4027_no3_project

```

{
    class Program
    {
        static void Main(string[] args)
        {
            Laptop lap = new Laptop();

            lap.ShowDetails(Laptop.Walton, Laptop.Price50000, Laptop.i3, Laptop.Ram2GB, Laptop.HD500GB);
            Console.WriteLine("\n\n_____ \n");

            lap.ShowDetails(Laptop.HP, Laptop.Price100000, Laptop.i5, Laptop.Ram4GB, Laptop.HD1TB);
            Console.WriteLine("\n\n_____ \n");
            Console.WriteLine("\n\nThank you mam!\n");
            Console.WriteLine("Najmul Hossain, 14A, CSE1802014027\n");

        }
    }
}

class Laptop : LaptopBase
{
    public void ShowDetails(string name, string price, string processor, string ram, string hdd)
    {
        Console.WriteLine("Name : " + name);
        Console.WriteLine("Price : " + price);
        Console.WriteLine("Processor : " + processor);
    }
}

```

```

        Console.WriteLine("Ram : " + ram);
        Console.WriteLine("HDD : " + hdd);
    }
}

class LaptopBase
{
    public const string i3 = "i3";
    public const string i5 = "i5";
    public const string i7 = "i7";
    public const string i9 = "i9";

    public const string Ram2GB = "2GB";
    public const string Ram4GB = "4GB";
    public const string Ram8GB = "8GB";

    public const string HD500GB = "500GB";
    public const string HD1TB = "1TB";

    public const string Price50000 = "50000 TK";
    public const string Price100000 = "100000 TK";

    public const string Walton = "Walton";
    public const string HP = "HP";
}
}

```

Output:



The screenshot shows the Microsoft Visual Studio Debug Console with the following output:

```

Name : Walton
Price : 50000 TK
Processor : i3
Ram : 2GB
HDD : 500GB

Name : HP
Price : 100000 TK
Processor : i5
Ram : 4GB
HDD : 1TB

Thank you mam!

Najmul Hossain, 14A, CSE1802014027

C:\Users\httpb\source\repos\HelloWorld\HelloWorld\bin\Debug\netcoreapp3.1\HelloWorld.exe (process 5720) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

```