## OOP LAB TASK 10

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Class ID: 106278.

**Student ID: 12113.** 

### <u>Task:</u>

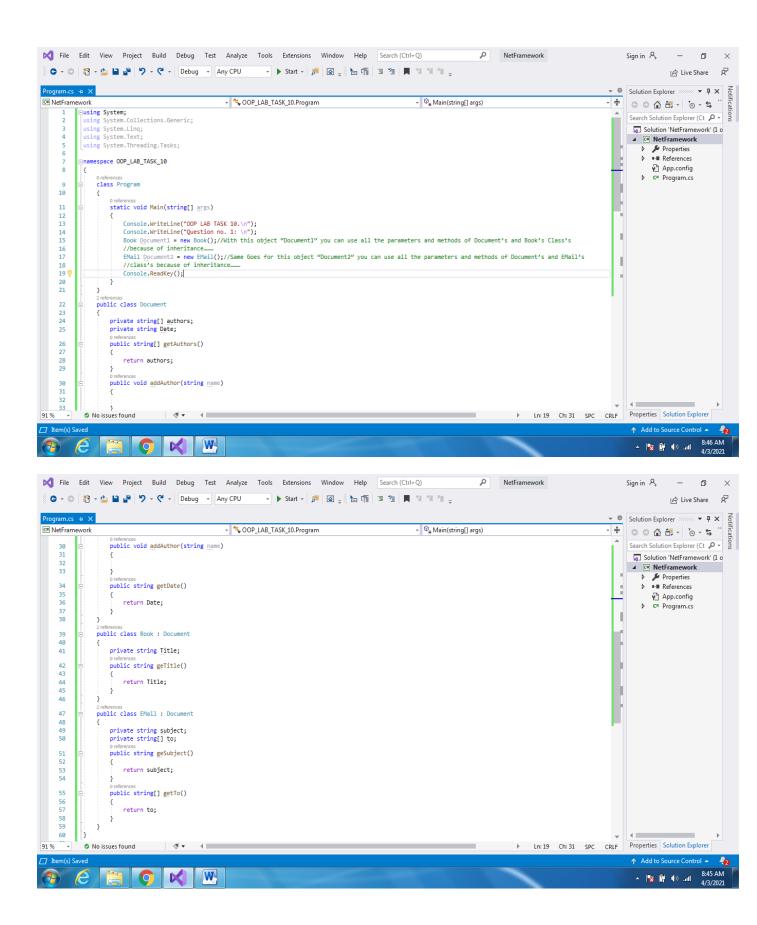
#### **Question 1:**

#### \*Inputted Code:

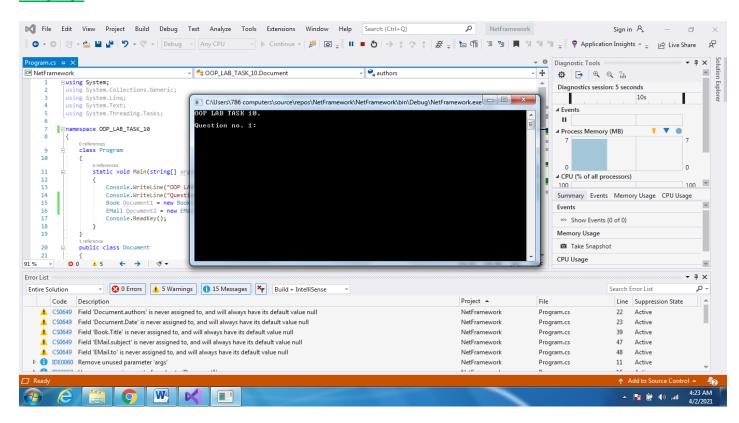
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace OOP_LAB_TASK_10
    class Program
        static void Main(string[] args)
            Console.WriteLine("OOP LAB TASK 10.\n");
            Console.WriteLine("Question no. 1: \n");
            Book Document1 = new Book();//With this object "Document1" you can use all
the parameters and methods of Document's and Book's Class's
            //because of inheritance......
            EMail Document2 = new EMail();//Same Goes for this object "Document2" you can
use all the parameters and methods of Document's and EMail's
            //class's because of inheritance......
            Console.ReadKey();
    }
    public class Document
        private string[] authors;
        private string Date;
        public string[] getAuthors()
            return authors;
        public void addAuthor(string name)
```

```
{
        public string getDate()
            return Date;
    }
    public class Book : Document
        private string Title;
        public string geTitle()
            return Title;
    public class EMail : Document
        private string subject;
        private string[] to;
        public string geSubject()
            return subject;
        public string[] getTo()
            return to;
    }
}
```

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# \*Output: (//Well apparently it won't have any output just a black screen since it was only the implementation of classes diagrams any way...):



#### Question 2:

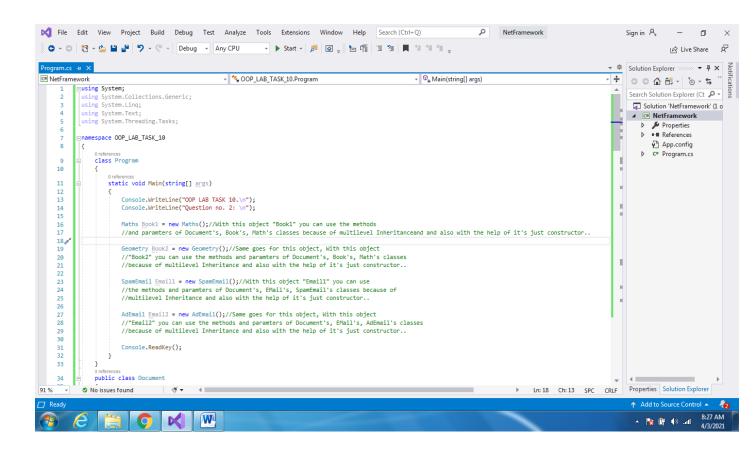
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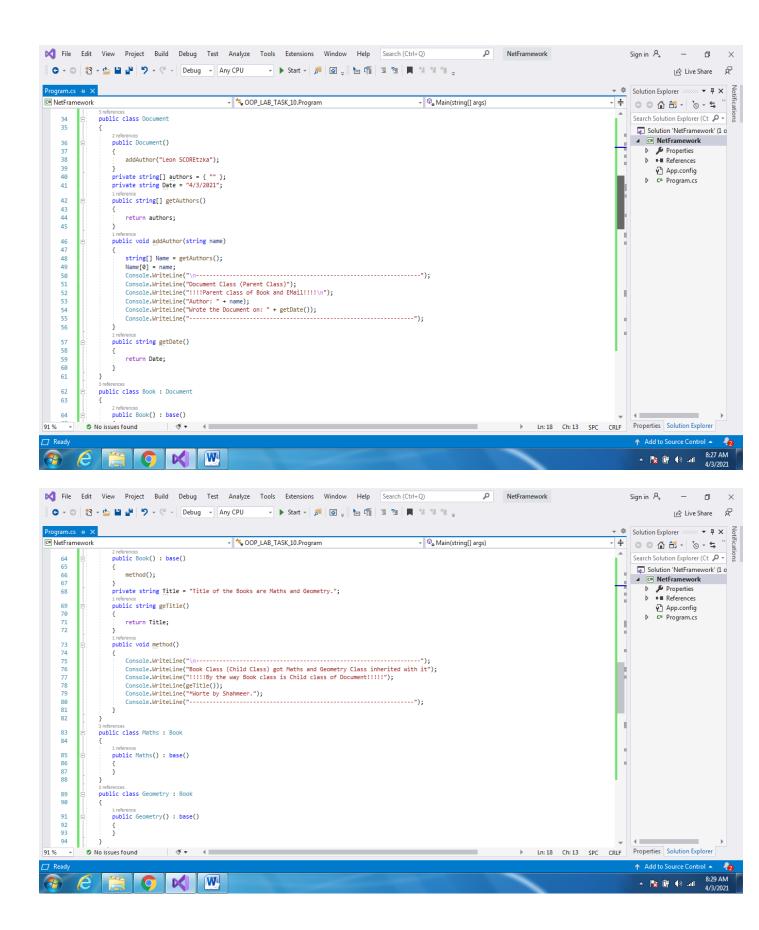
```
Geometry Book2 = new Geometry();//Same goes for this object, With this object
           //"Book2" you can use the methods and paramters of Document's, Book's, Math's
classes
           //because of multilevel Inheritance and also with the help of it's just
constructor..
           SpamEmail Email1 = new SpamEmail();//With this object "Email1" you can use
           //the methods and paramters of Document's, EMail's, SpamEmail's classes
because of
           //multilevel Inheritance and also with the help of it's just constructor..
           AdEmail Email2 = new AdEmail();//Same goes for this object, With this object
           //"Email2" you can use the methods and paramters of Document's, EMail's,
AdEmail's classes
           //because of multilevel Inheritance and also with the help of it's just
constructor..
           Console.ReadKey();
    }
   public class Document
       public Document()
           addAuthor("Leon SCOREtzka");
       private string[] authors = { "" };
       private string Date = "4/3/2021";
       public string[] getAuthors()
           return authors;
       public void addAuthor(string name)
           string[] Name = getAuthors();
           Name[0] = name;
           Console.WriteLine("\n-----
           Console.WriteLine("Document Class (Parent Class)");
           Console.WriteLine("!!!!Parent class of Book and EMail!!!!\n");
           Console.WriteLine("Author: " + name);
           Console.WriteLine("Wrote the Document on: " + getDate());
           Console.WriteLine("-----
       }
       public string getDate()
           return Date;
   public class Book : Document
       public Book() : base()
           method();
       private string Title = "Title of the Books are Maths and Geometry.";
```

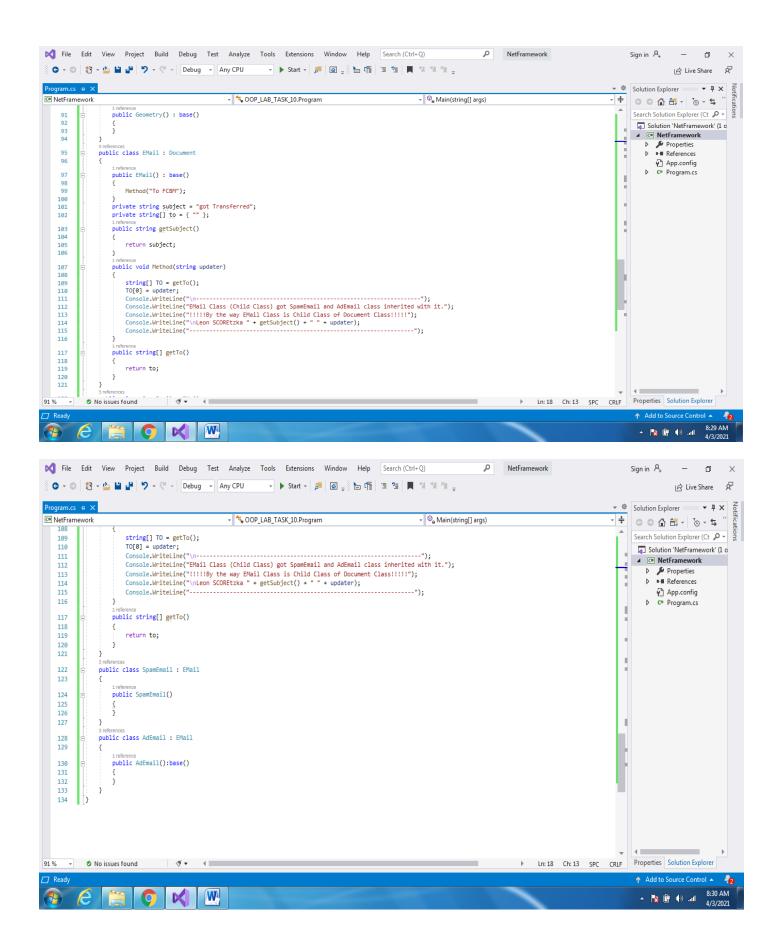
```
public string geTitle()
           return Title;
       public void method()
           Console.WriteLine("\n------
          Console.WriteLine("Book Class (Child Class) got Maths and Geometry Class
inherited with it");
           Console.WriteLine("!!!!!By the way Book class is Child class of
Document!!!!!");
           Console.WriteLine(geTitle());
           Console.WriteLine("*Worte by Shahmeer.");
          Console.WriteLine("-----
   public class Maths : Book
       public Maths() : base()
   public class Geometry : Book
       public Geometry() : base()
   public class EMail : Document
       public EMail() : base()
          Method("To FCBM");
       private string subject = "got Transferred";
       private string[] to = { "" };
       public string getSubject()
       {
          return subject;
       public void Method(string updater)
           string[] TO = getTo();
           TO[0] = updater;
          Console.WriteLine("\n-----
          ");
           Console.WriteLine("EMail Class (Child Class) got SpamEmail and AdEmail class
inherited with it.");
          Console.WriteLine("!!!!!By the way EMail Class is Child Class of Document
Class!!!!!");
           Console.WriteLine("\nLeon SCOREtzka " + getSubject() + " " + updater);
           Console.WriteLine("-----
       public string[] getTo()
```

```
return to;
}

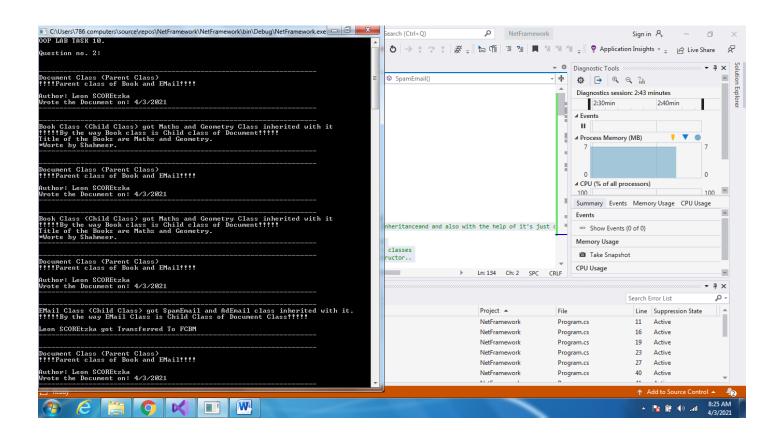
public class SpamEmail : EMail
{
    public SpamEmail()
      {
        public class AdEmail : EMail
        public AdEmail():base()
        {
            }
        }
}
```

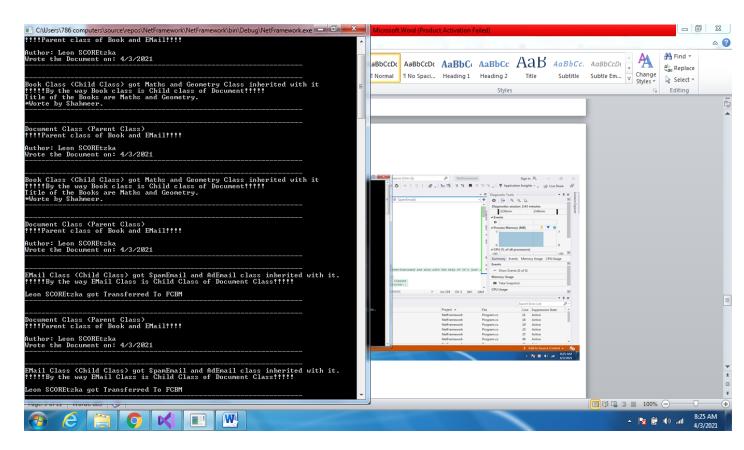






\*Output: (//since it was only the implementation of classes with multi-level-inheritance and printing some things through the constructors and objects of the child classes of like Math, geometry, AdEmail, SpamEmail just like asked in the question by the teacher which was question 2 sequel of question 1 any way...):





#### **Question 3:**

#### \*Inputted Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace OOP_LAB_TASK_10
    class Program
        static void Main(string[] args)
            Console.WriteLine("OOP LAB TASK 10.\n");
            Console.WriteLine("Question no. 3: \n");
            Student Object1 = new Student("HSSC EDUCATION i mean College.");
            Console.ReadKey();
    }
    public class Human
        public Human(string name, char gender)
            Console.WriteLine("\nMy Name is " + name);
```

```
Console.WriteLine("\nMy Gender is " + gender + "(MALE)");
              }
       }
       public class Student:Human
              public Student(string previousEducation) : base("Shahmeer", 'M')
                     Console.WriteLine("\nMy Previous Education has been " + previousEducation);
       }
}
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 C# NetFramework
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               O references
class Program
                  static void Main(string[] args)
     11
12
                     Console.WriteLine("OOP LAB TASK 10.\n");
Console.WriteLine("Question no. 3: \n");
Student Object1 = new Student("HSSC EDUCATION i mean College.");
Console.ReadKey();
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18
               public class Human
     19
20
                  public Human(string name, char gender)
     22
23
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26
                     Console.WriteLine("\nMy Name is " + name);
Console.WriteLine("\nMy Gender is " + gender + "(MALE)");
     27
28
               public class Student:Human
                   public Student(string previousEducation) : base("Shahmeer", 'M')
                     Console.WriteLine("\nMy Previous Education has been " + previousEducation);
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#### \*Output:

