Assignment #3

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Question I

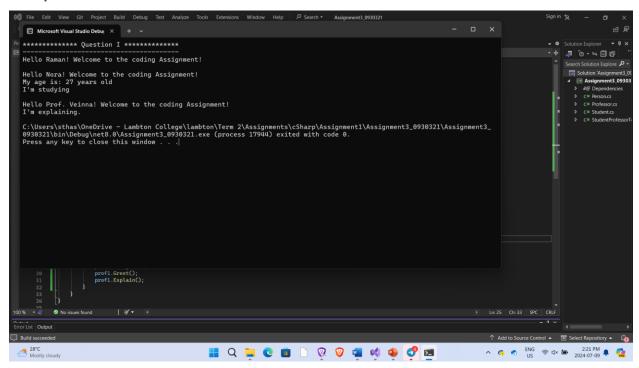
Code

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Assignment3_0930321
{
   internal class StudentProfessorTest
       public static void Main(string[] args)
           Console.WriteLine("******** Question I **********);
           Console.WriteLine("-----");
           Person p1 = new Person("Raman", 25);
           p1.Greet();
           Console.WriteLine();
           Student s1 = new Student();
           s1.SetName("Nora");
           s1.SetAge(27);
           s1.Greet();
           s1.ShowAge();
           s1.Study();
           Console.WriteLine();
           Professor prof1 = new Professor();
           prof1.SetName("Prof. Veinna");
           prof1.SetAge(50);
           prof1.Greet();
           prof1.Explain();
       }
   }
}
using System;
using System.Collections.Generic;
using System.Linq;
```

```
using System.Text;
using System. Threading. Tasks;
namespace Assignment3_0930321
    internal class Person
        private string name;
        private int age;
        public Person() {
            this.age = 20;
            this.name = "John";
        }
        public Person(string name)
            this.name = name;
        }
        public Person(string name, int age)
            this.name = name;
            this.age = age;
        }
        public void Greet()
            Console.WriteLine("Hello " + this.name + "! Welcome to the coding
Assignment!");
        public int GetAge()
            return age;
        public int SetAge(int age)
            this.age = age;
            return this.age;
        }
        public string SetName(string name)
            this.name = name;
            return this.name;
        }
    }
}
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
```

```
namespace Assignment3_0930321
    internal class Student: Person
        public Student() {
        }
        public void Study()
            Console.WriteLine("I'm studying");
        }
        public void ShowAge()
            Console.WriteLine("My age is: " + this.GetAge() + " years old" );
        }
    }
}
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Assignment3_0930321
    internal class Professor: Person
        public void Explain()
            Console.WriteLine("I'm explaining.");
        }
    }
}
```

Output Screenshot



Question II:

Code

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Assignment3_c0930321_quest2
   internal class PhotoBookTest
       public static void Main(string[] args)
           Console.WriteLine("********* Question II ***********);
           Console.WriteLine("-----");
           PhotoBook Pbook = new PhotoBook();
           Console.WriteLine("The total number of pages are: " +
Pbook.GetNumberPages());
           PhotoBook Pbook1 = new PhotoBook(24);
           Console.WriteLine("The total number of pages are: " +
Pbook1.GetNumberPages());
           BigPhotoBook BigPhotoBook1 = new BigPhotoBook();
```

```
Console.WriteLine("The total number of pages are: " +
BigPhotoBook1.GetNumberPages());
    }
}
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Assignment3_c0930321_quest2
    internal class BigPhotoBook: PhotoBook
    {
        public BigPhotoBook() {
            numPages = 64;
    }
}
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Assignment3_c0930321_quest2
    internal class PhotoBook
    {
        protected int numPages;
        public PhotoBook() {
            numPages = 16;
        public PhotoBook(int pages)
            numPages = pages;
        }
        public int GetNumberPages()
            return numPages;
        }
    }
}
```

