Create and using object

Create object from .NET Class

```
□using System;
      using System.Text;
     □namespace test
           0 references
           class Program
 6
               0 references
               static void Main(string[] args)
                   StringBuilder s1 = new StringBuilder();
10
                   s1.Append("ab"); // ab
11
                   Console.WriteLine(s1);
12
                   var s2 = s1;
13
                   s2.Append("cd");
14
                   Console.WriteLine(s1); // abcd
15
                   Console.WriteLine(s2); // abcd
16
17
18
19
```

Create object from user define class

Define class Person

```
public class Person
{
    public string Name { get; set; }
    public int Age { get; set; }
    public Person(string name, int age)
    {
        Name = name;
        Age = age;
    }
    //Other properties, methods, events...
}
```

Create object from Person

```
static void Main(string[] args)
    Person person1 = new Person("Leopold", 6);
   Console.WriteLine("person1 Name = {0} Age = {1}", person1.Name, person1.Age);
   // Declare new person, assign person1 to it.
   Person person2 = person1;
   //Change the name of person2, and person1 also changes.
    person2.Name = "Molly";
    person2.Age = 16;
    Console.WriteLine("person2 Name = {0} Age = {1}", person2.Name, person2.Age);
    Console.WriteLine("person1 Name = {0} Age = {1}", person1.Name, person1.Age);
   // Keep the console open in debug mode.
   Console.WriteLine("Press any key to exit.");
   Console.ReadKey();
                                      person1 Name = Leopold Age = 6
                                      person2 Name = Molly Age = 16
                                      person1 Name = Molly Age = 16
                                      Press any key to exit.
```

Array of object

```
pnamespace _0120__object
           class Foo
 4
               public int a;
 5
           class Program
 9
               static void Main(string[] args)
10
                   Foo[] myFooArray = new Foo[3];
11
12
                   for(int i = 0; i < myFooArray.Length; i++)</pre>
13
                       myFooArray[i] = new Foo();
14
                       myFooArray[i].a = i;
15
16
17
18
19
```

Killing object and GC

```
static void Main(string[] args)
    Foo[] myFooArray = new Foo[3];
    for (int i = 0; i < myFooArray.Length; i++)</pre>
        myFooArray[i] = new Foo();
        myFooArray[i].a = i;
    for (int i = 0; i < myFooArray.Length; i++)</pre>
        myFooArray[i] = null;
```

Excercise