Steps to Dependency Injection – Example 1

Alter the Application

```
using System.Web.Mvc;
using WalmartGreeter.Models;
namespace WalmartGreeter.Controllers
    public class HomeController : Controller
                                                                        Remove the original
                                                                           statement that created
                                                                           the object.
                                                                        Add a declaration for
                                                                           the object at the top of
                                                                           the class. Use interface
                                                                           instead of any implement
                                                                         Add a constructor that
                                                                            accepts the object as a
                                                                            parameter.
        public ActionResult Index()
            Eachdly Greeten
            IGreeter myGreeter = new FriendlyGreeter();
            ViewBag.Greeting = myGreeter.SayHi();
            ViewBag.TheImagePath = myGreeter.TheImagePath();
            return View();
    }
}
```

Set Up Ninject

- Install Ninject.MVC5 using NuGet. Use version 3.2.1!
- ❖ Add a file called Infrastructure and create in there a class called NinjectDependencyResolver.cs. Copy code from Canvas and paste in code. Add the bindings in AddBindings().kennel.Bind
 >().To
 >();
- In the RegisterServices method in NinjectWebCommon.cs, tell the application where to find the resolver.

System.Web.Mvc.DependencyResolver.SetResolver(new Your ProjectNameHere.Infrastructure.NinjectDependencyResolver(kernel));

Steps to Dependency Injection - Example 2

Alter the Application

```
using System.Web.Mvc;
using EssentialTools.Models;
namespace EssentialTools.Controllers
    public class HomeController : Controller
        private Product[] products = {
            new Product {Name = "Kayak", Category = "Watersports", Price = 275M},
            new Product {Name = "Lifejacket", Category = "Watersports", Price = 48.95M},
            new Product {Name = "Soccer ball", Category = "Soccer", Price = 19.50M},
            new Product {Name = "Corner flag", Category = "Soccer", Price = 34.95M}
        };
       Ivalue Calculator calc;
                                                                     Remove the original
                                                                        statement that created
        Public HomeController (Ivalue Calculator (alcPused) statement the object.
                                                                     Add a declaration for
                                                                        the object at the top of
                                                                        the class.
                                                                     Add a constructor that
                                                                        accepts the object as a
                                                                        parameter.
         public ActionResult Index()
           [IValueCalculator calc = new LingValueCalculator();
            Shoppingcart cart = new ShoppingCart(calc) { Products = products };
            decimal totalValue = cart.CalculateProductTotal();
            return View(totalValue);
        }
    }
}
```

Set Up Ninject

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- ❖ Add a site called Infrastructure and create in there a class called NinjectDependencyResolver.cs. Copy code from Canvas and paste in code. Add the bindings in AddBindings(). kernel.Bind
 >().To
 >();
- In the RegisterServices method in NinjectWebCommon.cs, tell the application where to find the resolver. System.Web.Mvc.DependencyResolver.SetResolver(new

YourProjectNameHere.Infrastructure.NinjectDependencyResolver(kernel));

Steps to Dependency Injection - Example 3

Alter the Application

```
using System.Web.Mvc;
using Lab6.Models;
namespace Lab6.Controllers
    public class HomeController : Controller
    {
        StoreItem item = new StoreItem { Name = "Sofa", Category = "Furniture",
                           Price = 935.95M, Discountable = true };
                                                                      Remove the original
                                                                         statement that created
                                                                         the object.
          calc = calc Passed In;
                                                                      Add a declaration for
                                                                         the object at the top of
                                                                         the class.
                                                                      Add a constructor that
                                                                         accepts the object as a
   public ActionResult Index()
                                                                         parameter.
            IPriceCalculator calc = new BlackFridaySalePrice();
            if (item.Discountable == true)
                decimal totalValue = calc.CalcSalesPrice(item.Price);
                return View(totalValue);
            }
            else
                return View(item.Price);
       }
   }
```

Set Up Ninject

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- ❖ Add a de called Infrastructure and create in there a class called NinjectDependencyResolver.cs. Copy code from Canvas and paste in code. Add the bindings in AddBindings(). kernel.Bind
 >().To
 >();
- In the RegisterServices method in NinjectWebCommon.cs, tell the application where to find the resolver.

System.Web.Mvc.DependencyResolver.SetResolver(new *YourProjectNameHere*.Infrastructure.NinjectDependencyResolver(kernel));