


Dependency Injection

👤 Created by	 Deepak Ks
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☰ SpringBoot	

```
package com.HibernatePT;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.ApplicationContext;

@SpringBootApplication
public class HibernatePtApplication {

    public static void main(String[] args) {

        ApplicationContext context=SpringApplication.run(HibernatePtApplication.class, args);
        Dev obj=context.getBean(Dev.class);
        obj.build();

    }

}
```

Main Application File

```
package com.HibernatePT;

import lombok.RequiredArgsConstructor;
```

```

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Qualifier;
import org.springframework.stereotype.Component;

@Component
//@RequiredArgsConstructor From Lombok Library but need to be declared once only and the object needs to be final
public class Dev {
    @Autowired// Field Injection
    @Qualifier("desktop")
    private Computer comp;

    /*
        Constructor Injection ( Autowired Not Required for this and the object should be declared as final )
        public Dev(Laptop laptop) {
            this.laptop = laptop;
        }
        Setter Injection
        @Autowired
        public void setLaptop(Laptop laptop){
            this.laptop=laptop;
        }

    */
    public void build() {
        comp.compile();
        System.out.println("we are building project");
    }
}

```

Dev.java

```
package com.HibernatePT;

public interface Computer {
    void compile();
}
```

Computer.java

```
package com.HibernatePT;

import org.springframework.context.annotation.Primary;
import org.springframework.stereotype.Component;

@Component
@Primary
public class Laptop implements Computer {
    public void compile() {
        System.out.println("compilation error");
    }
}
```

Laptop.java

```
package com.HibernatePT;

import org.springframework.context.annotation.Primary;
import org.springframework.stereotype.Component;

@Component
@Primary
public class Desktop implements Computer {
```

```
public void compile() {  
    System.out.println("compilation success");  
}  
}
```

Desktop.java