Day 10 – Java and Spring Boot

→ Spring Core
  ↳ Inversion of control (IOC) ✓
  ↳ Dependency Injection ✓

Inversion of control

→ s|w design principle
→ Language independent
→ process of giving an option to external
  system to create and manage objects.

Dependency Injection (Implementation)

→ It is an approach to inject the dependent
  object into the class
→ Using DI we can achieve IOC

what problem?

```java
public class Vehicle {

    public void createVehicle() {

        SonySpeaker sony = new SonySpeaker(); ✓
        sony.playMusic();
        MrfTyres mrf = new MrfTyres(); ✓
        mrf.assembleTyres();

    }
}

public class App {
    public void payBill() {

        PayPal p = new PayPal(); ✓
        p.makePayment();

    }
}
```

Solution

```java
public class App {

    @Autowired
    PaymentService paymentService;

    public void payBills() {
        paymentService.makePayment();

    }
}
```

How it works?

Application   Spring container   Configuration file
               Bean Bean
               Bean Bean