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Q1)

```java
@Bean
public String getMessage1() {
    System.out.println("hey from message1");
    return "1";
}
```

Output :

hey from message1

Q2)

```java
@Bean
@Qualifier("1")
public String getMessage1() {
    System.out.println("hey from message1");
    return "1";
}

@Bean
public String getMessage2(@Qualifier("1") String data) {
    System.out.println("hey from message2");
    return data;
}
```

Exapted output:

hey from message1
hey from message2

Output :

hey from message1
hey from message2

Q3)

```java
@Bean
@Qualifier("1")
public String getMessage1() {
    System.out.println("hey from message1");
    return "1";
}

@Bean
@Qualifier("2")
public String getMessage2(@Qualifier("3") String data) {
    System.out.println("hey from message2");
    return data;
}
@Bean
@Qualifier("3")
public String getMessage3() {
    System.out.println("hey from message3");
    return "3";
}
```

Exapted output:
Hey from message1
Hey from message3
Hey from message2

Output :
hey from message1
hey from message3
hey from message2

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Q4)

```java
@Bean
@Qualifier("1")
public String getMessage1() {
    System.out.println("hey from message1");
    return "1";
}

@Bean
@Qualifier("2")
public String getMessage2(@Qualifier("3") String data) {
    System.out.println("hey from message2");
    return data;
}

@Bean
@Qualifier("3")
public String getMessage3() {
    System.out.println("hey from message3");
    return "3";
}

@Component
public class MainController {
    String data;

    public MainController(@Qualifier("1") String data) {
        this.data = data;
        System.out.println("hey from main controller");
    }
}
```

Exapted output:
hey from message1
hey from main controller
hey from message3
hey from message2

Output :
hey from message1
hey from main controller
hey from message3
hey from message2

Q5)

```java
@Bean
@Qualifier("1")
public String getMessage1(MainController mainController) {
    System.out.println("hey from message1");
    return "1";
}

@Bean
@Qualifier("2")
public String getMessage2(@Qualifier("3") String data) {
    System.out.println("hey from message2");
    return data;
}

@Bean
@Qualifier("3")
public String getMessage3() {
    System.out.println("hey from message3");
    return "3";
}
@Component
public class MainController {
    String data;

    public MainController(@Qualifier("2") String data) {
        this.data = data;
        System.out.println("hey from main controller");
    }
}
```

Exapted output:
hey from message3
hey from message2
hey from main controller
hey from message1

Output:
hey from message3
hey from message2
hey from main controller
hey from message1