

What is the output ?

Q1 **Output:**
hey from message1

```
1 usage
@SpringBootApplication
public class SpringPollApplication {

    public static void main(String[] args) { SpringApplication.run(SpringPollApplication.class, args); }

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

Q2

```
1 usage
@SpringBootApplication
public class SpringPollApplication {

    public static void main(String[] args) { SpringApplication.run(SpringPollApplication.class, args); }

    @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 ;
    }
}
```

Output:
hey from message1
hey from message2

Because of using `@Qualifier` on `getMessage2` it will first print `getMessage1` then prints the string in `getMessage2`.

```
@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" ;
}
```

Output:

hey from message1
hey from message3
hey from message2

message 1 does not have a parameter or a qualifier so it will be printed first ,getMessage2 had a @Qualifier 3 it will first print Message3 then will print Message2

```

@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 {

    1 usage
    String data;

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

```

Output:

```

hey from message1
hey from Main controller
hey from message3
hey from message2

```

Because MainController has @Qualifier number 1 so it will print Message1 then goes to MainController, same with Message2 it has @Qualifier number 3; it will print Message3 then prints getMessage2

```

15
16 @Bean
17 @Qualifier("1")
18 public String getMessage1(MainController mainController){
19     System.out.println("hey from message1");
20     return "1";
21 }
22
23 @Bean
24 @Qualifier("2")
25 public String getMessage2(@Qualifier("3") String data ){
26     System.out.println("hey from message2");
27     return data;
28 }
29
30 @Bean
31 @Qualifier("3")
32 public String getMessage3(){
33     System.out.println("hey from message3");
34     return "3" ;
35 }

```

```

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

1 usage
@Component
public class MainController {

    1 usage
    String data;

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

```

Output:

```

hey from message3
hey from message2
hey from Main controller
hey from message1

```

message 3 does not have a parameter nor a qualifier so it will be printed first, message 2 has the qualifier of 3(message3) so will be printed after its qualifier, main controller has the qualifier of 2(message2) so will be printed after its qualifier, message 1 will be printed after all the above because it has a parameter MainController