Exercise (Spring Container)

What is the output ?

Q1

Answer

Output: "hey from message1"

Justification: since the method has been recognised, the return value was added to the container but what will be shown in the console is the print statement.

Q2

Answer

Output:

"hey from message1"
"hey from message2"

Justification: the method with field level qualifier annotation will run before the parameter level qualifier. Therefore, the print statement of the first method will be printed first.

Q3

Answer

Output:

"hey from message1"
"hey from message3"
"hey from message2"

OR

"hey from message3"
"hey from message1"
"hey from message2"

Justification: the only guaranteed order is getmessage2 and it will run last because it depends on another method.

Q4

Answer

Output:

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

OR

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

Justification: the only guaranteed order is getmessage2 and Main controller. Both of them will be last but main controller will come after getmessage2 as it only has parameter level qualifier and that makes it more dependent.

Q5

Answer

Output:

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

Justification: The method getMessage3 runs first because getMessage2 depends on it to create bean 3. After, Spring executes getMessage2 to create bean 2. Then, the Main Controller constructor is called, since it requires bean "2" as a parameter. Finally, getMessage runs, as it depends on Main Controller.