Q1:

output:
hey from message1

conclusion:
It is the only possible solution.

Q2:

output:
hey from message1
Hey from message2

conclotion:
It is the only possible solution.

Q3:

output:
hey from message1
hey from message3
hey from message2

OR

hey from message3
hey from message1
hey from message2

conclusion:
getMessage2 is dependent on getMessage3 so getMessage2
can't work before getMessage3.

Q4:

output:
hey from message1
hey from message3
hey from message2
hey from Main controller

Or

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

Or

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

Or

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

Or

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

Or

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

conclusion:
MainController can only run after getMessage1 and
getMessage2 can only run after getMessage3. But
getMessage1 and getMessage3 bothe can run at first.

Q5:

output:
hey from message3
hey from message2
hey from Main controller
hey from message1

conclusion:
It is the only possible solution .