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

OR

hey from message3

hey from message2

hey from message1

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 .