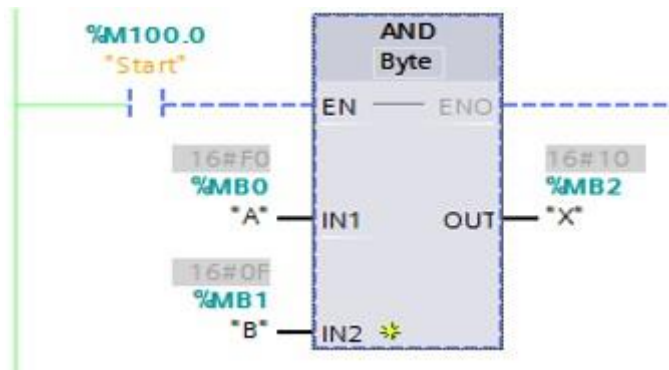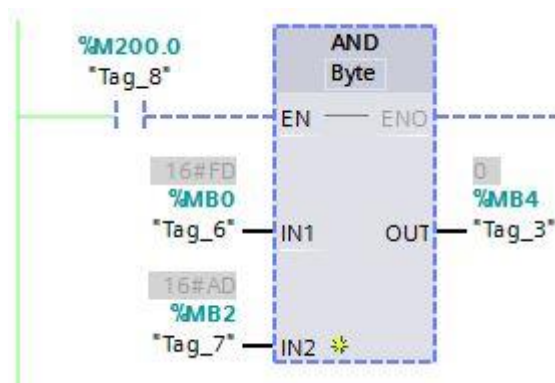# Quiz 11 – Understanding Word Logic Operations in TIA

1. What would be the hex result in **MB2** if **M100.0 is TRUE?**
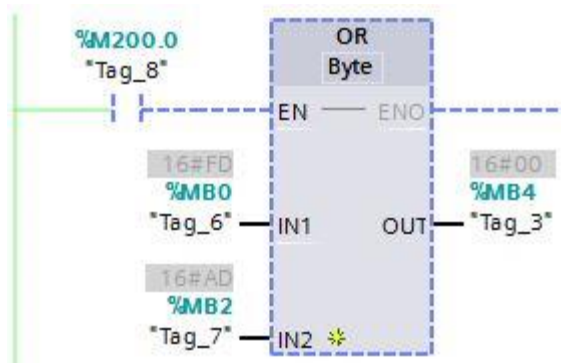

- FF
- F0
- 0F
- **00**

2. What would be the hex result in **MB4** if **M200.0 is TRUE**?

- FD
- **AD**
- FF
- DD
- AA

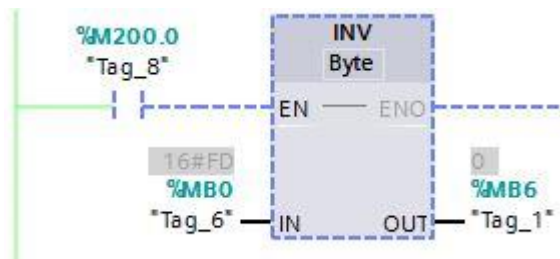3. What would be the hex result in **MB4** when **M200.0 is TRUE?**

%M200.0
"Tag_8"

OR
Byte

EN — ENO

16#FD
%MB0
"Tag_6" — IN1   OUT — 16#00 %MB4 "Tag_3"

16#AD
%MB2
"Tag_7" — IN2 ✴

- AD
- FF
- AF
- AA
- **FD**

4. What would be the hex result in **MB4** if **M200.0 is TRUE**?

%M200.0
"Tag_8"

XOR
Byte

EN — ENO

16#FD
%MB0
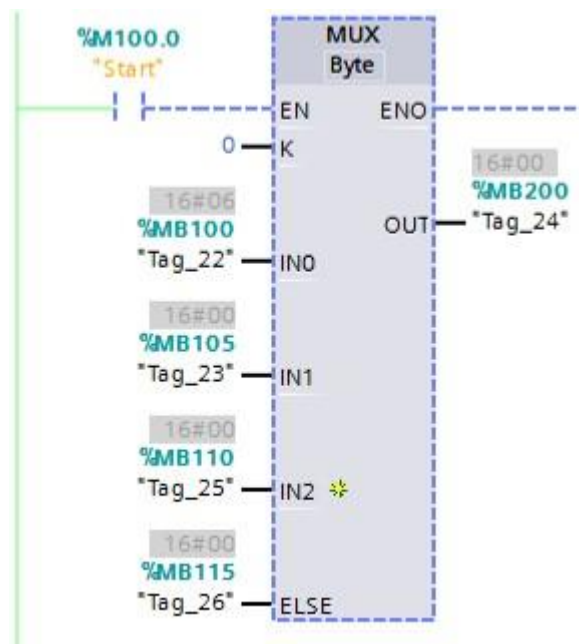"Tag_6" — IN1   OUT — 0 %MB4 "Tag_3"

16#AD
%MB2
"Tag_7" — IN2 ✴

- FD
- AD
- **50**
- 60
- AF
- 6A
- A6

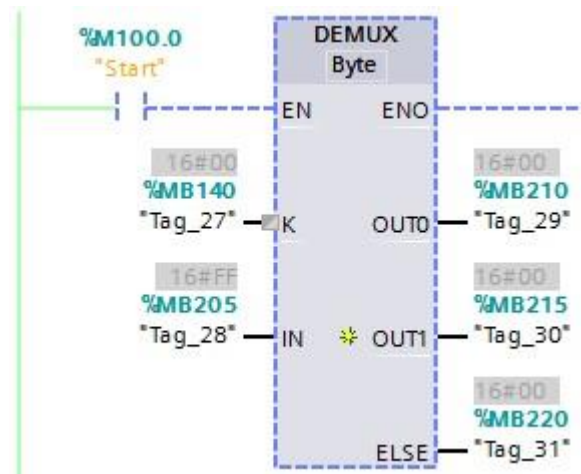5. What would be the hex result in **MB6** is **M200.0 is TRUE**?

- DF
- 20
- 04
- **02**

6. What would be the output **MB200** if **M100.0 is TRUE** and **K = 5?**

- MB200 = MB100
- MB200 = MB105
- MB200 = MB110
- **MB200 = MB115**

7. What would input move (copied) when **M100.0 is True** and **K = 5?**

- MB210
- MB215
- **MB220**
- None

8. You can use the "_____" instruction to read the bit number of the least significant bit in the input value and to send it to the OUT output.
- **Encode**
- Decode
- Swap
- Multiplex