Procedure:

0. undestandin what's a MPU sensor:

https://www.youtube.com/watch?v=ZBNC3Zbemq4&t=1574s&ab_channel=MorsiHamed

1. First I think of finding a ready library so I checked github
2. So I found one
   https://github.com/ibrahimcahit/MPU9255-Quaternion-AHRS-STM32
3. Then I tried to simulate It but didn't find the MPU on proteus
4. I researched found out that's there's another online simulator called Wowki, but didn't have MPU 9250
5. So the solution is try it hardware
6. For the wiring just follow this video (We're gonna use the debugger)
   https://www.youtube.com/watch?v=xxphp9wDnHA&t=928s&pp=ygUNbXB1NjA1MC BzdG0zMtIHCQmECQGHKiGM7w%3D%3D

Conclusion

We try to integrate our code and save it in our Git Hub:

https://github.com/youefkh05/CURT_Tasks