Implement CRC(Cyclic redundancy check) in MATLAB according to following instructions and submit to this form on/before 03/02/2022 on https://forms.gle/RyUZSktBYKY5u5gc6 .
Instructions :

1. Implement the calculation of CRC and detection . (i.e calculate remainder and then again calculate to get 0)
2. Make a 128 bit random message signal and calculate the 32 bit crc .
3. You are not allowed to use inbuilt matlab functions

Polynomial to be used :

$$x^{32} + x^{26} + x^{23} + x^{22} + x^{16} + x^{12} + x^{11} + x^{10} + x^8 + x^7 + x^5 + x^4 + x^2 + x + 1$$

Rules :

1. If the deadline of submission is extended then late submissions will be marked in lower ranking
2. While participating in the final event the best score of two teammates will be considered
3. Extra creativity will be awarded accordingly (for example make functions instead of direct code)
4. Submit a zip containing .m or .mlx file/es .