Assignment 1

ALTEN

- Implement a function that can read the information shown in the figure.

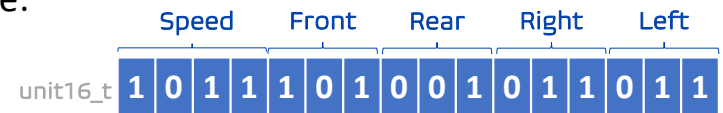| Seat belts				Windows				Doors				Lights			

unit16_t | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 |

Assignment 2

- Write a function which can encode the information in the given figure:

  - Speed / 20

  - Distance / 150

Speed	Front	Rear	Right	Left

unit16_t

1	0	1	1	1	0	1	0	0	1	0	1	1	0	1	1

- Implement a ring buffer – you don't need to check whether a cell is in used.

Bonus 2

- Implement an object pool – let the user know if there is no empty slots available.