PWM - Servo

Task 0: Init

1. Download FRDM K66-F SDK

2. Create new project with FTM driver

Task 1: Pin setup

1. Find SERVO pin in schematics.

2. Initialize SERVO pin to FTM in Pin config tool

3. Setup SERVO pin as output

Task 2: Specs

1. Find servo specs on the internet.

2. What is PWM signal period?

3. What is PWM duty cycle duration?

Task 3: Pheripheral setup

1. Setup FTM to correct period.

2. Setup FTM to dutycycle corresponding to neutral state.

3. Check if your code work on car.

Task 4: Update PWM

1. Find how to update PWM (function).

2. Extract logic and program high precision PWM update.

3. Check if your code work on car.

Bonus

1. Use SCANF and PRINTF via UART to communicate board.

2. Read number from user - angle (0 - 180).

3. Update servo based on the given angle.

'That's all Folks!