**Static Design for Traffic Light**

**Microcontroller**

**DIO**

**Led**

**APP**

**APP**

**ECUAL**

**MCAL**

Services

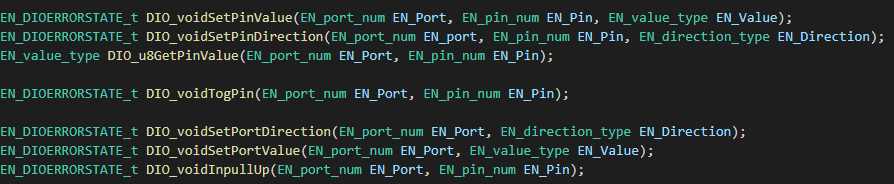
**SER\_UART**

SER\_UART

**UART**

**MCAL APIs**

* **DIO APIs**



* **UART APIs**

EN\_ERRORSTATE\_t UART\_ENInit(void);

EN\_ERRORSTATE\_t UART\_SendData(uint8\_t Data);

EN\_ERRORSTATE\_t UART\_SendNoBlock(uint8\_t Data);

EN\_ERRORSTATE\_t UART\_RecieveData(void);

Uint8\_t UART\_RecieveNoBlock(uint8\_t \*Data);

**ECUAL APIs**

* **Led APIs**

Void LED\_Init(void);

Void LED\_On(uint8\_t Led\_Num);

Void LED\_Off(uint8\_t Led\_num);

Void LED\_Toggle(uint8\_t Led\_num);

**Services APIs**

* **SER\_UART APIs**

Void SER\_UARTSendString(uint8\_t \*Str);

Void SER\_UARTReciveString(uint8\_t \*Str);

Void SER\_UARTReciveStringNoBLOCKING(uint8\_t \*Str);

Void SER\_UARTSendLongNum(uint32\_t Numb);

Void SER\_UARTRecevieLongNum(void);

**APP APIs**