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Source Code of user\_tasks.c:

Graphical user interface, text, application, email

Description automatically generated

Text, letter

Description automatically generatedScreenshot of the code snippet in main.c regarding the added code between USER CODE BEGIN 2 and USER CODE BEGIN 2.

Code Snippet of header file usr\_tasks.h

Text

Description automatically generated

Three Hal functions:

GPIO\_PinState HAL\_GPIO\_ReadPin(GPIO\_TypeDef\* GPIOx, uint16\_t GPIO\_Pin);

void HAL\_GPIO\_WritePin(GPIO\_TypeDef\* GPIOx, uint16\_t GPIO\_Pin, GPIO\_PinState PinState);

void HAL\_GPIO\_TogglePin(GPIO\_TypeDef\* GPIOx, uint16\_t GPIO\_Pin);

A picture containing text

Description automatically generated

Image for reference.