**ASSINGMENT NO 2**

**Text

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Graphical user interface, text, application

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**int** flag=0;

**int** state;

**int** loop=1;

**int** prev;

**while** (1)

{

/\* USER CODE END WHILE \*/

/\* USER CODE BEGIN 3 \*/

prev=state;

state=HAL\_GPIO\_ReadPin(button\_GPIO\_Port, button\_Pin);

**if**(state==0 && prev==1){

flag=flag+1;

**if**(flag==1){

**for**(**int** i=0;i<5;i++){

HAL\_GPIO\_WritePin(led1\_GPIO\_Port, led1\_Pin, *GPIO\_PIN\_SET*);

HAL\_Delay(1000);

HAL\_GPIO\_WritePin(led1\_GPIO\_Port, led1\_Pin, *GPIO\_PIN\_RESET*);

HAL\_Delay(1000);

}

}

**if**(flag==2){

**for**(**int** i=0;i<5;i++){

HAL\_GPIO\_WritePin(led2\_GPIO\_Port, led2\_Pin, *GPIO\_PIN\_SET*);

HAL\_Delay(1000);

HAL\_GPIO\_WritePin(led2\_GPIO\_Port, led2\_Pin, *GPIO\_PIN\_RESET*);

HAL\_Delay(1000);

}

}

**if**(flag==3){

HAL\_GPIO\_WritePin(led1\_GPIO\_Port, led1\_Pin, *GPIO\_PIN\_SET*);

HAL\_GPIO\_WritePin(led2\_GPIO\_Port, led2\_Pin, *GPIO\_PIN\_SET*);

}

**if**(flag==4){

HAL\_GPIO\_WritePin(led1\_GPIO\_Port, led1\_Pin, *GPIO\_PIN\_RESET*);

HAL\_GPIO\_WritePin(led2\_GPIO\_Port, led2\_Pin, *GPIO\_PIN\_RESET*);

}

**if**(flag==5){

flag=0;

}

}

}

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