**ASSIGNMENT – 2**

main.c file

int c=0;  
while (1)  
{  
 /\* USER CODE END WHILE \*/

/\* USER CODE BEGIN 3 \*/

if (HAL\_GPIO\_ReadPin(sw2\_GPIO\_Port, GPIO\_PIN\_2) == 0)  
 {  
 c++;  
 printf("Reading pin status\n");  
 }

printf("count=%d\n",c);

switch(c)  
 {  
 case 1:  
 {  
 printf("In case 1\n");  
 HAL\_GPIO\_WritePin(LED5\_GPIO\_Port, GPIO\_PIN\_5,1);  
 HAL\_Delay(1000);  
 HAL\_GPIO\_WritePin(LED5\_GPIO\_Port, GPIO\_PIN\_5,0);  
 HAL\_Delay(1000);  
 break;  
 }

case 2:  
 {  
 printf("In case 2\n");  
 HAL\_GPIO\_WritePin(LED14\_GPIO\_Port, GPIO\_PIN\_14,1);  
 HAL\_Delay(1000);  
 HAL\_GPIO\_WritePin(LED14\_GPIO\_Port, GPIO\_PIN\_14,0);  
 HAL\_Delay(1000);  
 // HAL\_GPIO\_WritePin(LED5\_GPIO\_Port, GPIO\_PIN\_5,0);  
 break;  
 }

case 3:  
 {  
 printf("In case 3\n");  
 HAL\_GPIO\_WritePin(LED14\_GPIO\_Port, GPIO\_PIN\_14,1);  
 HAL\_GPIO\_WritePin(LED5\_GPIO\_Port, GPIO\_PIN\_5,1);  
 break;  
 }  
 case 4:  
 {  
 printf("In case 4\n");  
 HAL\_GPIO\_WritePin(LED14\_GPIO\_Port, GPIO\_PIN\_14,0);  
 HAL\_GPIO\_WritePin(LED5\_GPIO\_Port, GPIO\_PIN\_5,0);  
 break;  
 }  
 case 5:  
 {  
 c=1;  
 break;  
 }

default :  
 {  
 HAL\_GPIO\_WritePin(LED14\_GPIO\_Port, GPIO\_PIN\_14,0);  
 HAL\_GPIO\_WritePin(LED5\_GPIO\_Port, GPIO\_PIN\_5,0);  
 }

}  
}  
/\* USER CODE END 3 \*/