



```

while (1)
{
/* USER CODE END WHILE */

/* USER CODE BEGIN 3 */
HAL_GPIO_WritePin(GPIOE,GPIO_PIN_3,GPIO_PIN_RESET);

address = 0x29+ 0x80;
HAL_SPI_Transmit(&hspi1, &address, 1, 50);
HAL_SPI_Receive(&hspi1, &Acceleration.x, 1, 50);

address = 0x2B+ 0x80;
HAL_SPI_Transmit(&hspi1, &address, 1, 50);
HAL_SPI_Receive(&hspi1, &Acceleration.y, 1, 50);

address = 0x2D+ 0x80;
HAL_SPI_Transmit(&hspi1, &address, 1, 50);
HAL_SPI_Receive(&hspi1, &Acceleration.z, 1, 50);

length = sprintf(str, "x : %d, y : %d, z : %d\n\r", Acceleration.x, Acceleration.y, Acceleration.z);

HAL_UART_Transmit(&huart2, str, length, 10);

HAL_GPIO_WritePin(GPIOE,GPIO_PIN_3,GPIO_PIN_SET);
HAL_Delay(150);
}
/* USER CODE END 3 */

```

*In while(1). toggle CS(PE3) down and send address 0x29 + 0x80, 0x2B + 0x80 + 0x2D + 0x08 through SPI1 and receive data from SPI that will be acceleration in x, y, z axis in order. After finish retrieving data toggle CS up again.*