```
#include "ES Configure.h"
#include "ES Framework.h"
#include "ES_DeferRecall.h"
#include "ES ShortTimer.h"
#include "inc/hw memmap.h"
#include "inc/hw types.h"
#include "inc/hw gpio.h"
#include "inc/hw_sysctl.h"
#include "driverlib/sysctl.h"
#include "driverlib/pin map.h"
#include "driverlib/gpio.h"
#include "FarmerMasterSM.h"
#include "R ButtonDebounce.h"
#include "L ButtonDebounce.h"
#include "Constants.h"
static uint8 t MyPriority;
static R DBState t CurrentState;
bool InitR ButtonDebounce(uint8 t Priority) {
      // Set service priority
      MyPriority=Priority;
      // Initialize the current state machine state
      CurrentState = R Debouncing;
      // Initialize the debouncing timer
      ES Timer InitTimer(R DEBOUNCE TIMER, DEBOUNCE TIME);
      // End Initialization
      ES Event ThisEvent;
      ThisEvent.EventType = ES INIT;
      return (ES PostToService(MyPriority, ThisEvent));
}
bool PostR ButtonDebounce(ES Event ThisEvent) {
      return ES PostToService(MyPriority, ThisEvent);
ES Event RunR ButtonDebounce (ES Event ThisEvent) {
      ES Event ReturnEvent;
      ReturnEvent.EventType = ES NO EVENT;
      switch (CurrentState)
            case (R Debouncing):
                  if ((ThisEvent.EventType == ES TIMEOUT) && (ThisEvent.EventParam
== R DEBOUNCE TIMER))
                        CurrentState = R Ready2Sample;
                  break;
            }
            case (R Ready2Sample):
                  if (ThisEvent.EventType == ES BUTTON UP)
                        ES Timer InitTimer(R DEBOUNCE TIMER, DEBOUNCE TIME);
                        CurrentState = R Debouncing;
                        ES Event Event2Post;
                        Event2Post.EventType = ES R BUTTON UP;
                        PostFarmerMasterSM(Event2Post);
                        printf("R Button Up\r\n");
```