```
#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 "Reverse ButtonDebounce.h"
#include "Constants.h"
static uint8 t MyPriority;
static REV DBState t CurrentState;
bool InitREV ButtonDebounce(uint8 t Priority) {
      // Set service priority
      MyPriority=Priority;
      // Initialize the current state machine state
      CurrentState = REV Debouncing;
      // Initialize the debouncing timer
      ES Timer InitTimer(REV DEBOUNCE TIMER, DEBOUNCE TIME);
      // End Initialization
      ES Event ThisEvent;
      ThisEvent.EventType = ES INIT;
      return (ES PostToService(MyPriority, ThisEvent));
}
bool PostREV ButtonDebounce(ES Event ThisEvent) {
      return ES PostToService(MyPriority, ThisEvent);
ES Event RunREV ButtonDebounce (ES Event ThisEvent) {
      ES Event ReturnEvent;
      ReturnEvent.EventType = ES NO EVENT;
      switch (CurrentState)
            case (REV Debouncing):
                  if ((ThisEvent.EventType == ES TIMEOUT) && (ThisEvent.EventParam
== REV DEBOUNCE TIMER))
                        CurrentState = REV Ready2Sample;
                  break;
            case (REV Ready2Sample):
            {
                  if (ThisEvent.EventType == ES BUTTON UP)
                  {
                        ES Timer InitTimer(REV DEBOUNCE TIMER, DEBOUNCE TIME);
                        CurrentState = REV Debouncing;
                        ES Event Event2Post;
                        Event2Post.EventType = ES REV BUTTON UP;
                        PostFarmerMasterSM(Event2Post);
                        printf("REV Button Up\r\n");
```