Start Main

Initialize Port F

Set Counter

Delay

Both Press

S2 Press

S1 Press

If

Check which Switch is pressed (Check Input)

Blow Red Blub

Blow Green Blub

Blow Blue Blub

Blow No Blub

No Press

End initialization of port F

Enable port F as digital Port

Disable all alternate Functions i.e. set port as regular port function

Set Port PIN’s Direction using direction register

Configure as general input output port

Disable Analog Function

Unlock the lock register

Activate the Clock

Initialize Port F

Delay

End Check which Switch is pressed (Check Input)

Check which Switch is pressed (Check Input)

Save the data to register

Read the port input PINs

End Delay

Counter = 0

Counter not = 0

If

Check If Counter = 0

Decrement the counter by 1