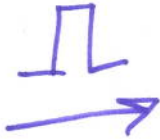


Voltage?  
3.3V ← Processor  
5.0V ← USB Supply



PSUEDO-CODE FOR LAB 1

```
Void main (void)
```

```
{
```

```
Initialize MCU clock
```

```
Initialize UART
```

```
Initialize LCD
```

```
Initialize Timers
```

```
Initialize Switches
```

```
Enable Switches
```

```
While (1)
```

```
{
```

```
if (sw1_Pressed == TRUE)
```

```
{
```

```
if (count == 0) // count is a global variable initialized to value 0
```

```
{
```

```
Start the timer
```

```
count = 1;
```

```
}
```

```
elseif (count == 1) // when stopwatch was paused
```

```
{
```

```
Stop the timer
```

```
count = 0;
```

```
}
```

```
elseif ( count == 2)
```

```
{
```

```
  Reload the timers & start them
```

```
// when stop watch is started  
after resetting
```

```
  count = 1;
```

```
}
```

```
SW1 - pressed == FALSE;
```

```
}
```

```
if (SW2 - pressed == TRUE)
```

```
{
```

```
  Reset the clock & display
```

```
  Deactivate the timers
```

```
  count = 2;
```

```
  SW2 - pressed == FALSE;
```

```
}
```

```
if (Seconds - timer == TRUE)
```

```
{
```

```
  Increment count and display on LED; line 1  $\rightarrow$  Second - timer = False  
  Put 1st character on transmit buffer manually.
```

```
if (R - buffer == <null>)
```

```
if (R - buffer == <null>)
```

```
if (R - buffer == <null>)
```

```
{
```

```
  display overtime on line 2
```

```
}
```

```
}
```

```
}
```