

LABORATORY

Microcontrollers

LAB 8

NAME	KELVIN MAKAKA
MATRICULATION NUMBER	26219
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SLOT	SE SLOT 4
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Task 1.

- Key 1 (Button Read): PB0
- Key 2 (Button Write): PB1
- LCD Display add-on
- EEPROM add-on
- RTC add-on
- $ADMUX = (1 \ll REFS0) | (1 \ll REFS1) | (1 \ll MUX3)$; used to enable temperature sensor in the microcontroller with 1.1v as reference.
- ADC pre-scale of 64 is selected.
- Key 1 shows the stored data and the program prints Output End if all the data has been displayed
- Key2 records the data .

Task 2

- Pressing of both Key1 and Key2 sends the recorded data into the PC and prints "USART OUTPUT"
- The function `uart_output();` is called and outputs the data through the serial interface as a string of arrays.