

# Project Report

- Screenshots of cmoka test returning

## MEMORY

```
onkar@onkar-Aspire-E5-575G: ~/repos/projects/ecen_projects/project_2/src
onkar@onkar-Aspire-E5-575G:~/repos/projects/ecen_projects/project_2/src$ make test
cc -std=c99 -Wall -Werror -g -O0 -I 3rd-party/build-Debug/include -o test_memory.out test_memory.c libutils.a 3rd-party/build-Debug/lib/libcmocka.a -lm
./test_memory.out
===== Running 12 test(s).
RUN OK test_pointer_equal_NULL1
RUN OK test_pointer_equal_NULL1
RUN OK test_src_in_dst_overlap
RUN OK test_dst_in_src_overlap
RUN OK test_dst_in_src_overlap
RUN OK test_no_overlap
RUN OK test_no_overlap
RUN OK test_pointer_equal_NULL2
RUN OK test_pointer_equal_NULL2
RUN OK test_CHECK_SET1
RUN OK test_CHECK_SET1
RUN OK test_pointer_equal_NULL3
RUN OK test_pointer_equal_NULL3
RUN OK test_CHECK_SET2
RUN OK test_CHECK_SET2
RUN OK test_pointer_equal_NULL4
RUN OK test_pointer_equal_NULL4
RUN OK CHECK_EVEN
RUN OK CHECK_ODD
RUN OK CHECK_CHAR
RUN OK CHECK_CHAR
===== 12 test(s) run.
PASSED 12 test(s).
onkar@onkar-Aspire-E5-575G:~/repos/projects/ecen_projects/project_2/src$
```

## DATA

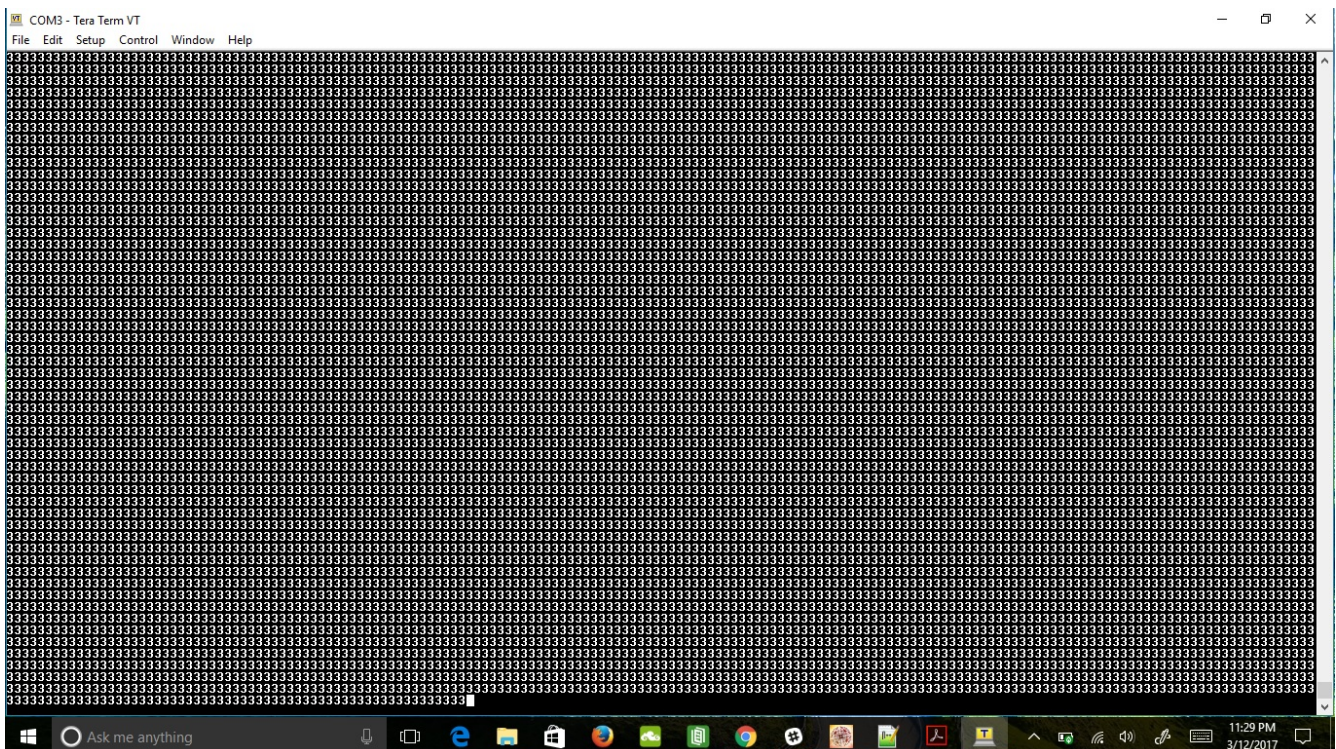
```
onkar@onkar-Aspire-E5-575G:~/repos/projects/ecen_projects/project_2/src
onkar@onkar-Aspire-E5-575G:~/repos/projects/ecen_projects/project_2/src$ make test
./test_data.out
===== Running 4 test(s).
RUN OK IP1
RUN OK IP1
RUN OK BIG_TO_LITTLE
RUN OK BIG_TO_LITTLE
RUN OK IP2
RUN OK IP2
RUN OK LITTLE_TO_BIG
RUN OK LITTLE_TO_BIG
===== 4 test(s) run.
PASSED 4 test(s).
onkar@onkar-Aspire-E5-575G:~/repos/projects/ecen_projects/project_2/src$
```

# Project Report

## CIRCULAR BUFFER

```
omkar@omkar-Aspire-E5-575G: ~/repos/projects/ecen_projects/project_2/src
omkar@omkar-Aspire-E5-575G:~/repos/projects/ecen_projects/project_2/src$ make test
cc -std=c99 -Wall -Werror -g -O0 -I 3rd-party/build-Debug/include -o test_circbuf.out test_circbuf.c libutils.a 3rd-party/build-Debug/lib/libcnocka.a -ln
./test_circbuf.out
===== Running 10 test(s).
RUN OK Inv_Pointer
RUN OK Nn_Initialized_Buffer
RUN OK Nn_Initialized_Buffer
RUN OK Allocate_Free
RUN OK Allocate_Free
RUN OK ADD_REMOVE
RUN OK Buffer_Fll
RUN OK Buffer_Fll
RUN OK Buffer_Empt
RUN OK Buffer_Empt
RUN OK Buffer_WA
RUN OK Buffer_WA
RUN OK Buffer_WR
RUN OK Buffer_WR
RUN OK Over_Fl
RUN OK Over_Fl
RUN OK Over_Em
RUN OK Over_Em
===== 10 test(s) run.
[ PASSED ] 10 test(s)
omkar@omkar-Aspire-E5-575G:~/repos/projects/ecen_projects/project_2/src$
```

## UART using binary logger



## Project Report