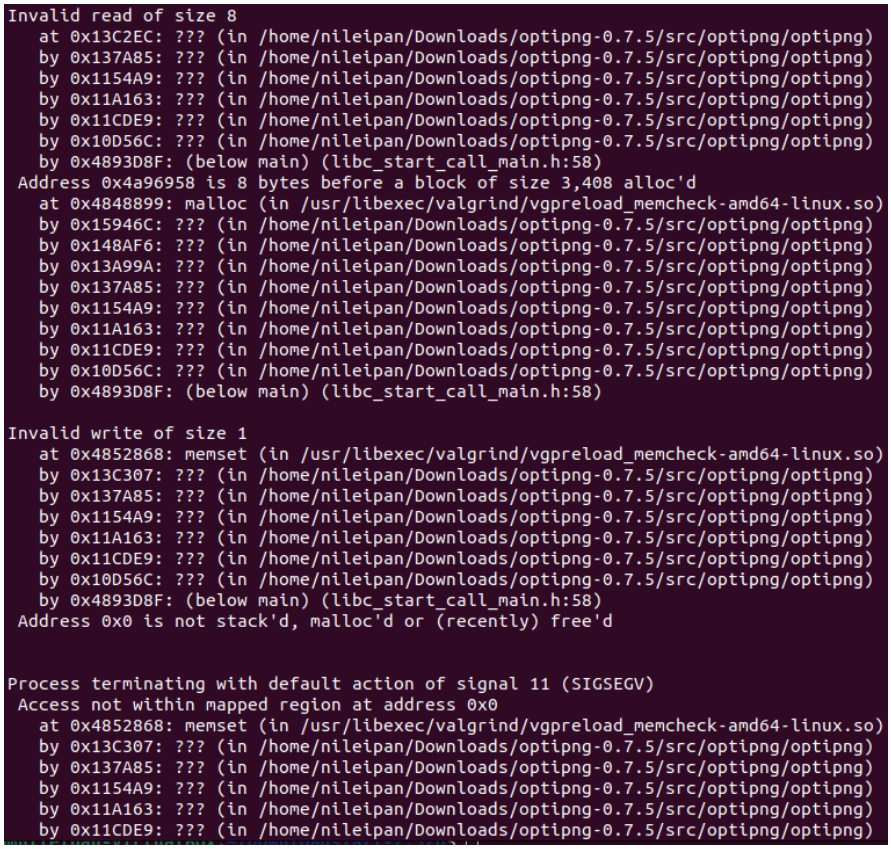
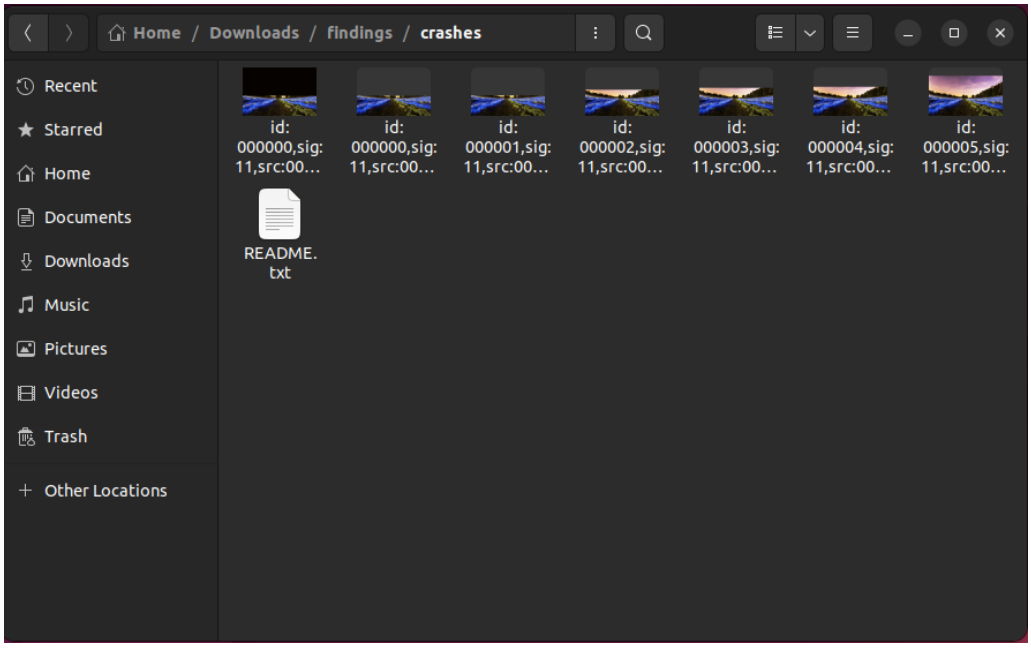
Task 3

1. Command: ./afl-fuzz -m 2048 -i /home/nileipan/Download/test/ -o findings/ /home/nileipan/Downloads/optipng-0.7.5/src/optpng/optpng @@
    a. Reason: ./afl-fuzz to run fuzzer on target program
    b. -m 2048 to define larger memory limit 2048mb for image processing
    c. -i /path/ define input image folder
    d. -o /path/ define output folder
    e. @@ meaning input for target program is a file
2. 

    a. Vulnerability caused by invalid read, write and memset, out of bound memory access
3. Exploitability: Reading out of bound memory could potentially bypass ASLR and retrieve sensitive information like memory addresses.

4. Crash folders created by afl



   a. One example file