

OS ASSIGNMENT BY GROUP-71

GROUP MEMBERS CONTRIBUTION:

- 1) Ayush Singhal: Coded the loader.
- 2) Sanjeet Kumar Patel: Did the error handling part and debugged the code.

DETAILS ABOUT SIMPLE LOADER IMPLEMENTATION:

We first loaded the data into the elf file. For this we used read function to load data into ehdr and phdr. After that using for loop, we looped phdr and found the segment whose p_type is equal to PT_LOAD. After that using mmap function, we loaded the segment data into virtual address. Now we have to find and navigate to the entry point address. For this we subtracted p_vaddr of phdr from e_entry of ehdr. Then we did typecasting and called the _start function. We also did error checks in multiple locations. For eg: we checked that whether the mmap function has successfully assigned memory or not, etc.

LINK TO THE GITHUB REPOSITORY:

[OS ASSIGNMENT GITHUB REPOSITORY LINK](#)