**OPERATING SYSTEMS**

**Assignment 1 Report**

Simple Linux Shell

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**Problem Statement:**

It is required to implement a Unix shell program. A shell is simply a program that conveniently

allows you to run other programs.

**Objectives:**

1. Familiarity with system calls in Unix environment.

2. Introducing processes and their nesting.

**Main Functions:**

**Execute:**

In this method we take the command after splitting it. Then, create new process with fork() to run the execvp() function that will run the command into it.

We also handle the parent process to wait or not for the child termination depending on the user input.

**Parse:**

In this method we take the command as input from the user and after that we parse it and reformat it so it have only one space separator between words. Then, it removes the trailing and leading spaces. Finally, it convert the splited string into the form that will be accepted in execute.

**Sigint\_handler:**

In this method we override the interrupt handler to write to the log file whenever a process terminates.

**Sample Runs:**









