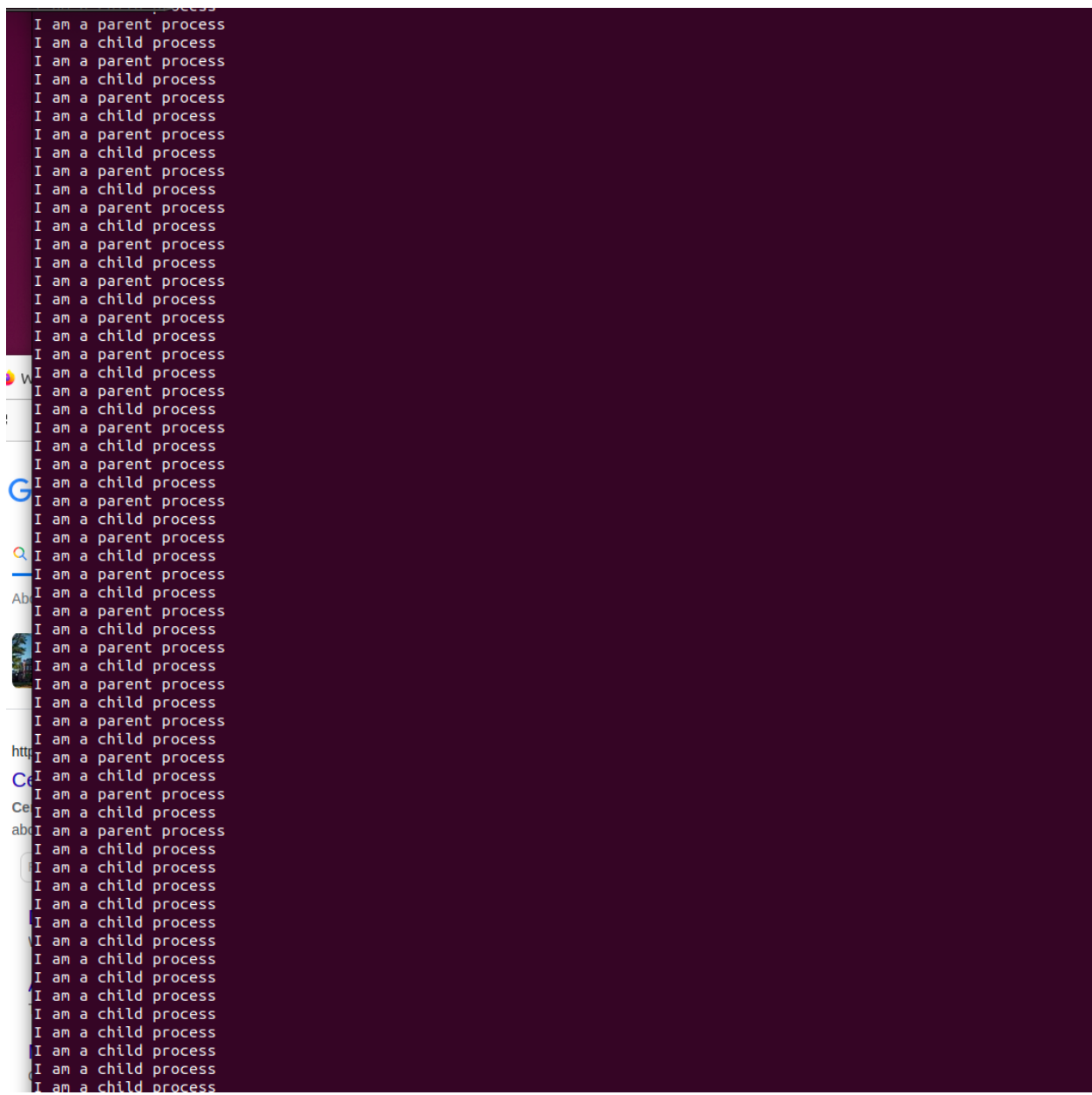


1. 4 child processes
2. 3.0 % of CPU and 5.0% of MEM
3. 7959108 KiB
4. Gnome Shell
5. Gnome Shell
6. Apt-get is a Debian-based system package manager (used to install, remove, and update packages). Yum is also a package manager for Red Hat-based systems (used to install, remove and update packages). Wget is command-line utility for downloading files from internet. Gzip is a file compression utility for unix-like systems. Tar is a utility for archiving files and directories into a single archive file. Rar is a proprietary file archiving utility for windows and unix like systems.
- 7.



```
1 #include <stdio.h>
2 #include <unistd.h>
3
4 int main(){
5     pid_t pid = fork();
6     if(pid == 0){
7         for(int i = 0; i < 200; i++){
8             printf("I am a child process\n");
9         }
10    }else{
11        for (int i = 0; i < 200; i++){
12            printf("I am a parent process\n");
13        }
14    }
15    return 0;
16 }
```



8.

```
Open  [?] Save  [?] [?] [?] [?]  
1 #include <sys/types.h>  
2 #include <stdio.h>  
3 #include <unistd.h>  
4 #include <sys/wait.h>  
5 #include <stdlib.h>  
6  
7 int main(){  
8     pid_t pid;  
9     char *buf;  
10    pid=fork();  
11    if (pid == 0){  
12        printf("I am the child process\n");  
13    }else{  
14        wait(NULL);  
15        printf("child process complete\n");  
16        printf("I am the parent process\n");  
17        buf = (char *)malloc(100*sizeof(char));  
18        getcwd(buf, 100);  
19        printf("\n %s \n", buf);  
20    }  
21    return 0;  
22 }
```

samaad@Ubuntu:~\$./practice2
I am the child process
child process complete
I am the parent process

9.

```
Open  [?] Save  [?] [?] [?] [?]  
1 #include <stdio.h>  
2 #include <unistd.h>  
3  
4 int main(){  
5     pid_t pid;  
6     pid = fork();  
7  
8     if (pid == 0){  
9         printf("I am the child process, my PID is %d, my parent's PID  
is %d\n", getpid(), getppid());  
10    }else{  
11        printf("I am the parent process, my PID is %d, my child's PID  
is %d\n", getpid(), pid);  
12    }  
13    }  
14    return 0;  
15 }
```

samaad@Ubuntu:~\$ gcc -g practice3.c -o practice3
samaad@Ubuntu:~\$./practice3
I am the parent process, my PID is 5135, my child's PID is 5136
I am the child process, my PID is 5136, my parent's PID is 5135
samaad@Ubuntu:~\$ gedit practice3.c

