**EXPERIMENT -1**

1.Create a new process by invoking the appropriate system call. Get the process identifier of the

currently running process and its respective parent using system calls and display the same

using a C program.

#include <stdio.h>

#include <unistd.h>

#include <sys/types.h>

int main() {

pid\_t pid;

pid = fork();

if (pid < 0) {

perror("Fork failed");

return 1;

} else if (pid == 0) {

printf("Child Process:\n");

printf("Child PID: %d\n", getpid());

printf("Parent PID: %d\n", getppid());

} else {

printf("Parent Process:\n");

printf("Parent PID: %d\n", getpid());

printf("Child PID: %d\n", pid);

}

return 0;

}

**SAMPLE OUTPUT**

Parent Process:

Parent PID: 12345

Child PID: 12346

Child Process:

Child PID: 12346

Parent PID: 12345