2. Write a C Program to create a child process which calculates the area of rectangle and

parent process will prints the Area result after the child execution completed. Implement it

using fork system call. Area = Length x Breadth.

ANS:-

#include <stdio.h>

#include <sys/wait.h>

#include <sys/shm.h>

#include <unistd.h>

int main() {

int l, b, area;

int shmid;

int \*shmptr;

shmid = shmget(IPC\_PRIVATE, sizeof(int), IPC\_CREAT | 0666);

shmptr = shmat(shmid, NULL, 0);

int pid = fork();

if (pid == 0) {

printf("Enter the length of the rectangle: ");

scanf("%d", &l);

printf("Enter the breadth of the rectangle: ");

scanf("%d", &b);

area = l \* b;

\*shmptr = area;

shmdt(shmptr);

}

else {

wait(NULL);

printf("The area of the rectangle is: %d\n", \*shmptr);

shmctl(shmid, IPC\_RMID, NULL);

}

return 0;

}

