ASANSOL ENGINEERING COLLEGE

Practical examination 2020-2021

Sub Code: PCC 592   Sub Name: Operating System

full Marks: 40   Time: 11:10AM-12:30 Pm   Date: 30-03-2021

Name: Ranchhor Gangopadhyay

University Roll No: 10800218036

Registration No: 181080110184

3) Write a c program on IPC to create a pipe, the Child process send a message to the parent

Code:

```c
#include <stdio.h>
#include <unistd.h>
#include <stdlib.h>
int main()
{
        char msg[] = "Hello!";
        size_t size = sizeof(msg);
        char inp[size];
        int fd[2];
        if (pipe(fd) < 0)
                exit(1);
        if (fork() == 0)
        {
                close(fd[1]);
                printf("Mess age recieved from child : ");
                read(fd[0], inp, size);
                printf("\n finished Reading message\n");
                close(fd[0]);
        }
        else
        {       close(fd[0]);
                write(fd[1], msg, size);
                close(fd[1]);
        }
}
```

Output:

```
~/Desktop/Code/OS-lab> gcc ipcp.c -o ipcp
~/Desktop/Code/OS-lab> ./ipcp
```

~/Desktop/code/os-lab> ./ipcp

Message ~~received~~ received from child process : Hello!

Finished Reading Message.