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Panel: C**, Batch:** C1

OS Lab 4 Code:

Title: Process Management (Inter-process Communication)


```c
#include <stdio.h>

#include <sys/types.h>

#include <unistd.h>

#include <string.h>

pid_t pid;

int fd[2];


int main(){

    int n;

    char s[50],c[50];

    printf("Enter message to be read: \n");

    scanf("%s",&c);

    n = pipe(fd);

    if(n == 0){

    printf("Pipe created successfully");
```

```
pid = fork();


if(pid == 0){
```

```c
            printf("Executing child process %d\n",getpid());

            close(fd[1]);

            read(fd[0],s,50);

            printf("The message read from parent is %s\n",s);

    }
    else{

            printf("Executing Parent process %d\n", getpid());

            close(fd[0]);

            write(fd[1],c,50);

            }

    }
    else if(n < 0){

            printf("Failure\n");

    }
    else{

            printf("Hello!");

    }

    return 0;

}
```

OUTPUT:

```
11  int fd[2];
12
13
14
15  int main(){
16
17
18
19  int n;
20
21  char s[50],c[50];
22
23  printf("Enter message to be read: \n");
24
25  scanf("%s",&c);
26
27  n = pipe(fd);
28
29  if(n == 0){
30
31  printf("Pipe created successfully");
```

input

```
|           char *
Enter message to be read:
Devanshu Surana
Pipe created successfullyExecuting Parent process 57
Pipe created successfullyExecuting child process 61
The message read from parent is Devanshu
```