## OS Lab 10 11762 Muhammad Kashif

## Task 1

```
#include <stdio.h>
#include<unistd.h>
#include<string.h>
#include<fcntl.h>
#include<sys/stat.h>
#include<sys/types.h>
#define FIFO_FILE "MYFIFO"
int main(){
int fd,fd1;
mkfifo(FIFO FILE,0666);
char readbuf1[80],readbuf2[80];
  int pipe1[2], pipe2[2];
  int returnstatus1, returnstatus2;
  int pid;
  int pipe1writemessage;
  int pipe2writemessage;
  int readmessage;
  returnstatus1 = pipe(pipe1);
  if(returnstatus1 == -1){
    printf("Unable to create pipe1");
    return 1;}
  returnstatus2 = pipe(pipe2);
  if(returnstatus2 == -1){
    printf("Unable to create pipe2");
    return 1;}
  pid = fork();
  if(pid != 0){
    close(pipe1[0]);
    close(pipe2[1]);
printf("IN Parent Block\n");
printf("You can type your message\n");
while(1){
fd=open(FIFO_FILE,O_CREAT|O_WRONLY);
fgets(readbuf2,80,stdin);
write(fd,readbuf2,strlen(readbuf2)+1);
close(fd);}
  sleep(1);}
        else{
    close(pipe1[1]);
    close(pipe2[0]);
while(1){
fd1=open(FIFO_FILE,O_RDONLY);
read(fd1,readbuf1,sizeof(readbuf1));
printf("IN Childs Block\n");
printf("Read Client Message\n %s\n",readbuf1);
close(fd1);}}
 return 0;}
```

## Output

```
—(kali⊗kali)-[~/Documents/lab_10]
_$ ./obj3
IN Parent Block
You can type your message
kashif here
IN Childs Block
Read Client Message
kashif here
shiza here
IN Childs Block
Read Client Message
shiza here
kese hen ap
IN Childs Block
Read Client Message
 kese hen ap
bilkul thik tum sunao
IN Childs Block
Read Client Message
bilkul thik tum sunao
П
```