

```
//B20CS1130
//Experiment 2
//Pipe
```

```
#include<stdio.h>
#include<unistd.h>
#include<stdlib.h>
#include<sys/types.h>
#include<sys/wait.h>
```

```
void main(){
FILE *fp;
char readbuff[50],writebuff[50],filename[10];
int fd1[2],fd2[2],ret1,ret2;
ret1=pipe(fd1);
ret2=pipe(fd2);
if(ret1<0||ret2<0){
    printf("Error in pipe creation.");
}
pid_t pid=fork();
if(pid>0){    //parent
    close(fd1[0]);
    printf("Enter file name:");
    scanf("%s",filename);
    //write filename to pipe 1
    write(fd1[1],filename,sizeof(filename));
    sleep(5);
    close(fd2[1]);
    //read contents of pipe 2
    read(fd2[0],readbuff,sizeof(readbuff));
    printf("The contents read from pipe2: %s\n",readbuff);
}
else if(pid==0){    //child
    sleep(3);
    close(fd1[1]);
    //read file name of pipe 1
    read(fd1[0],readbuff,sizeof(readbuff));
    fp=fopen(readbuff,"r");
    fgets(writebuff,sizeof(writebuff),fp);
    fclose(fp);
    close(fd2[0]);
    //write contents to pipe 2
    write(fd2[1],writebuff,sizeof(writebuff));
}
```

```
else{  
    printf("Error in fork creation.");  
}  
}  
/*
```

```
jins.txt  
Pro fotographer
```

OUTPUT

```
s6cs130@comp62:~/print$ gcc 2.pipe.c
```

```
s6cs130@comp62:~/print$ ./a.out
```

```
Enter file name:jins.txt
```

```
The contents read from pipe2: Pro fotographer
```

```
*/
```