

LAB- 04 Activity

Name : Ibadullah Shaikh

Roll No : 19K-0259

Section : BCS- 4H

Q1:


```
ibadullah_shaikh@ibadullah:~$ gedit unnamed.c
ibadullah_shaikh@ibadullah:~$ gcc -o Q1 unnamed.c
ibadullah_shaikh@ibadullah:~$ ./Q1
unnamed_pipe [INFO] Child Process.
unnamed_pipe [INFO] Parent Process.
Hellow Mr.Linux
ibadullah_shaikh@ibadullah:~$
```


```
9      pipe(pipefd);
10     pid=fork();
11     if(pid >0 )
12     {
13         sleep(5);
14         fflush(stdin);
15         printf("unnamed_pipe [INFO] Parent Process.\n");
16         read(pipefd[0], buffer, sizeof(buffer));
17         write(1, buffer, sizeof(buffer));
18         printf("\n");
19     }
20     else if(pid==0)
21     {
22         fflush(stdin);
23         printf("unnamed_pipe [INFO] Child Process.\n");
24         write(pipefd[1], "Hellow Mr.Linux", 15);
25     }
26     else
27     {
28         printf("unnamed_pipe [ERROR] Error in creating Child Process.\n");
29     }
30 }
31 if(pid > 0)
32 {
33     wait(NULL);
```

Q2:


```
Open  read1.c
1 #include<stdio.h>
2 #include<sys/stat.h>
3 #include<sys/types.h>
4 #include<fcntl.h>
5 #include<unistd.h>
6 int main (void)
7 {
8     int fd, retval;
9     char buffer[] = "TESTDATA";
10    fd=open("/tmp/myfifo",O_RDONLY);
11    retval=read(fd, buffer, sizeof(buffer));
12    fflush(stdin);
13    write(1,buffer, sizeof(buffer));
14    printf("\n");
15    close(fd);
16    return 0;
17 }
```

```
Open  read2.c
1 #include<stdio.h>
2 #include<sys/stat.h>
3 #include<sys/types.h>
4 #include<fcntl.h>
5 #include<unistd.h>
6 int main (void)
7 {
8     int fd, retval;
9     char buffer[] = "TESTDATA";
10    fd=open("/tmp/myfifo",O_RDONLY);
11    retval=read(fd, buffer, sizeof(buffer));
12    fflush(stdin);
13    write(1,buffer, sizeof(buffer));
14    printf("\n");
15    close(fd);
16    return 0;
17 }
```

Activities  Text Editor ▾ 19:05 30 مارچ ●

Open ▾  read3.c

```
1 #include<stdio.h>
2 #include<sys/stat.h>
3 #include<sys/types.h>
4 #include<fcntl.h>
5 #include<unistd.h>
6 int main (void)
7 {
8     int fd, retval;
9     char buffer[] = "TESTDATA";
10    fd=open("/tmp/myfifo",O_RDONLY);
11    retval=read(fd, buffer, sizeof(buffer));
12    fflush(stdin);
13    write(1,buffer, sizeof(buffer));
14    printf("\n");
15    close(fd);
16    return 0;
17 }
```

Open ▾  write.c

```
1 #include<stdio.h>
2 #include<sys/stat.h>
3 #include<sys/types.h>
4 #include<fcntl.h>
5 #include<unistd.h>
6 int main (void)
7 {
8     int fd, retval;
9     char buffer[] = "TESTDATA";
10    fflush(stdin);
11    retval=("/tmp/myfifo",0666);
12    fd=open("/tmp/myfifo", O_WRONLY);
13    write(fd,buffer, sizeof(buffer));
14    close(fd);
15    return 0;
16 }
```

```
ibadullah_shaikh@ibadullah:~$ touch read1.c
ibadullah_shaikh@ibadullah:~$ gedit read1.c
ibadullah_shaikh@ibadullah:~$ gcc -o read1 read1.c
ibadullah_shaikh@ibadullah:~$ ^C
ibadullah_shaikh@ibadullah:~$ ^C
ibadullah_shaikh@ibadullah:~$ ^C
ibadullah_shaikh@ibadullah:~$ ./read1
TESTDATA
ibadullah_shaikh@ibadullah:~$

ibadullah_shaikh@ibadullah:~$ touch read3.c
ibadullah_shaikh@ibadullah:~$ gedit read3.c
ibadullah_shaikh@ibadullah:~$ gcc -o read3 read3.c
ibadullah_shaikh@ibadullah:~$ ./read3
TESTDATA
ibadullah_shaikh@ibadullah:~$

ibadullah_shaikh@ibadullah:~$ touch read2.c
ibadullah_shaikh@ibadullah:~$ gedit read2.c
ibadullah_shaikh@ibadullah:~$ gcc -o read2 read2.c
ibadullah_shaikh@ibadullah:~$ ./read2
TESTDATA
ibadullah_shaikh@ibadullah:~$

ibadullah_shaikh@ibadullah:~$ touch write.c
ibadullah_shaikh@ibadullah:~$ gedit write.c
ibadullah_shaikh@ibadullah:~$ gcc -o write write.c
ibadullah_shaikh@ibadullah:~$ ./write
```