

All Online Learning

www.allonlinelearning.com

Named pipe example:

1. Creating a named pipe

namedpipe.c

```
#include<stdio.h>
#include<sys/types.h>
#include<sys/stat.h>
int main()
{
    int res;
    res = mkfifo("fifo1",0777); //creates a named pipe with the name fifo1
    printf("named pipe created\n");
}
```

2. Creating a sender process

namedpipesender.c

```
#include<unistd.h>
#include<stdio.h>
#include<fcntl.h>
int main()
{
    int res,n;
    res=open("fifo1",O_WRONLY);
    write(res,"Namedpipe",9);
    printf("Sender Process %d sent the data\n",getpid());
}
```

3. Creating a receiver process

namedpipereciver.c

```
#include<unistd.h>
#include<stdio.h>
#include<fcntl.h>
int main()
{
    int res,n;
    char buffer[100];
    res=open("fifo1",O_RDONLY);
    n=read(res,buffer,100);
    printf("Reader process %d started\n",getpid());
}
```

All Online Learning

www.allonlinelearning.com

```
printf("Data received by receiver %d is: %s\n",getpid(), buffer);  
}
```

Output:

```
lm@lm-VirtualBox:~$ gcc namedpipe.c
```

```
lm@lm-VirtualBox:~$ ./a.out
```

```
named pipe created
```

```
lm@lm-VirtualBox:~$ ls -l
```

```
prwxrwxr-x 1 lm lm 0 Sep 20 21:34 fifo1
```

```
lm@lm-VirtualBox:~$ gcc -o namedpipesender namedpipesender.c
```

```
lm@lm-VirtualBox:~$ gcc -o namedpipereciver namedpipereciver.c
```

```
lm@lm-VirtualBox:~$ ./namedpipesender & ./namedpipereciver
```

```
[3] 3216
```

```
Sender Process 3216 sent the data
```

```
Reader process 3217 started
```

```
Data received by receiver 3217 is: Namedpipe
```

```
[3] Exit 34 ./namedpipesender
```