4. Write a C/C++ program which demonstrates interprocess communication between a reader process and a writer process. Use mkfifo, open, read, write and close APIs in your program.

/*Writer Process*/

```
#include <stdio.h>
#include <fcntl.h>
#include <sys/stat.h>
#include <sys/types.h>
#include <unistd.h>

int main()
{
  int fd;
  char buf[1024];

  /* create the FIFO (named pipe) */
  char * myfifo = "/tmp/myfifo";
  mkfifo(myfifo, 0666);
  printf("Run Reader process to read the FIFO File\n");
  fd = open(myfifo, O_WRONLY);
  write(fd,"Hi", sizeof("Hi"));

  /* write "Hi" to the FIFO */
  close(fd);
  unlink(myfifo);    /* remove the FIFO */
  return 0;
}
```

```
/* Reader Process */


 #include <fcntl.h>
 #include <sys/stat.h>
 #include <sys/types.h>
 #include <unistd.h>
 #include <stdio.h>

 #define MAX_BUF 1024

 int main()
{
  int fd;


  /* A temp FIFO file is not created in reader */
  char *myfifo = "/tmp/myfifo";
  char buf[MAX_BUF];


  /* open, read, and display the message from the FIFO */
  fd = open(myfifo, O_RDONLY);
  read(fd, buf, MAX_BUF);
  printf("Writer: %s\n", buf);
  close(fd);
  return 0;
}
```