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;
OUTPUT
secabiet@secabiet-Vostro-3470:~/afreen$ gcc writer.c
secabiet@secabiet-Vostro-3470:~/afreen$ gcc reader.c
secabiet@secabiet-Vostro-3470:~/afreen$ ls
           Calculator.class DistanceConverter reader.c
a.html
          CalculatorP.class pgm6
                                          TC
a.out
appletp.class CalculatorP.java pgm6.zip
                                              writer
appletp.java CurrencyConverter reader
                                              writer.c
secabiet@secabiet-Vostro-3470:~/afreen$ gcc writer.c -o writer
secabiet@secabiet-Vostro-3470:~/afreen$ gcc reader.c -o reader
secabiet@secabiet-Vostro-3470:~/afreen$ ./writer
Run Reader process to read the FIFO File
```