WEEK -6

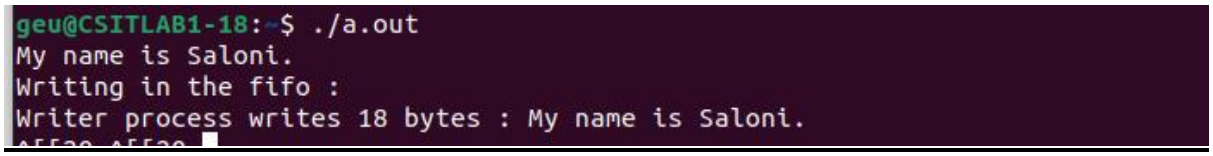
1. **Problem Statement**: Write a C for the implementation of FIFO.

```
// The code for writing in the file myfifo.
#include <stdio.h>
#include <string.h>
#include <sys/stat.h>
#include <fcntl.h>

int main() {
   int fd , numberOfBytes ;
   char str[100];

   mknod("myfifo" , S_IFIFO| 0666 , 0);
   fd = open("myfifo" , O_WRONLY);
   printf ("Writing in the fifo : \n");

   while (fgets(str, sizeof(str), stdin)){

      numberOfBytes = fwrite(fd , str , strlen(str));
      printf ("Writer process writes %d bytes : %s\n" , numberOfBytes , str);

   }


   return 0;
}
```

```
// The code for reading in the file myfifo.
#include <stdio.h>
#include <string.h>
#include <unistd.h>
#include <sys/stat.h>
#include <fcntl.h>

int main(){
   int numberOfBytes , fd ;
   char arr[100];

   mknod("myfifo" , S_IFIFO|0666 , 0);
   int fd = open("myfifo" , O_RDONLY);

   do{
      numberOfBytes = read(fd , arr , sizeof(arr));
      arr[numberOfBytes] = '\0';
      printf("Reader process reads %d bytes : %s\n" , numberOfBytes , arr);
   }while (numberOfBytes > 0 );

   return 0;
}
```

OUTPUT

- **Writer Terminal**



- **Reader Terminal**