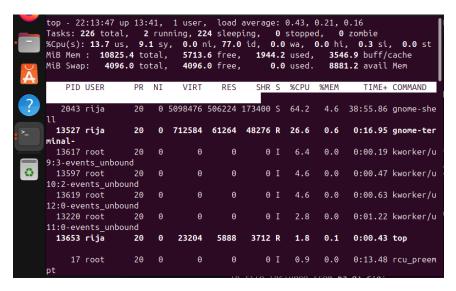
OPERATING SYSTEMS LAB 6 RIJA ALI (23K-0057)

6A

Q1)



```
Mar 7 22:15
                                                                                        . ◆ • •
iia-VirtualBox: ~
                                       rija@rija-VirtualBox: ~
                                                                        Q = - - x
 GNU nano 7.2
                                              6a_q1.c
#include <sys/types.h
#include <stdio.h>
#define
#define
#define
        char write_msg[BUFFER_SIZE] = "Greetings";
char read_msg[BUFFER_SIZE];
int fd[2];
         pid_t pid;
         if (pipe(fd) == -1) {
         fprintf(stderr,"pipe failed");
         pid = fork();
          if (pid<0){
          fprintf(stderr, "fork failed");
          return 1:
         if(pid>0){
         close(fd[
                           END], write_msg, strlen(write_msg) +1);
END]);
         write(fd[
         close(fd[
                              AW Where Is AK Cut
                                                             AT Execute
                                                                            AC Location
```

```
Mar 7 22:21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        → • • •
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q = - 0
                                                                                                                                                                                                                                                                                                                                                          rija@rija-VirtualBox: ~
                                  GNU nano 7.2
                                                                                                                                                                                                                                                                                                                                                                                           6a_q1.c
                              #include <sys/types.h>
#include <stdio.h>
                                #include <string.h>
                             #define BUFFER_SIZE 25
#define READ_END 0
#define WRITE_END 1
                             int main(void){
    char write_msg[BUFFER_SIZE];
    char read_msg[BUFFER_SIZE];
   O
                                                                             if (pipe(fd) == -1) {
fprintf(stderr,"pipe failed");
                                                                              pid = fork();
                                                                                if (pid<0){
                                                                              fprintf(stderr, "fork failed");
                                                                            if(pid>0){
close(fd[READ_END]);
printf("Enter message to send: ");
fgets(write_msg,BUFFER_SIZE,Stdin);
iits and state of the send of 
                                                                              write_msg[strcspn(write_msg, "\n")] = '\0';
                                                                                                                                                                                                              ^W Where Is
^\ Replace
                                                                                                                        ^O Write Out
^R Read File
                                                                                                                                                                                                                                                                                                          ^K Cut
^U Paste
                                                                                                                                                                                                                                                                                                                                                                                                    ^T Execute
^J Justify
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ^C Location
^/ Go To Line
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   M-U Undo
M-E Redo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             M-A Set Mark
M-6 Copy
^G Help
^X Exit
```

```
rija@rija-VirtualBox:-$ gcc 6a_q1.c -o 6a_q1
rija@rija-VirtualBox:-$ ./6a_q1
Enter message to send: hi my name's rija.
read hi my name's rija.rija@rija-VirtualBox:-$
```

6B

Q1)

```
Mar 8 04:52
                                                                                                                        Q = - m x
                                                                  rija@rija-VirtualBox: ~
     GNU nano 7.2
int main(){
    int fd;
    char buffer[BUFSIZ];
    ssize_t num_bytes;
                                                                         6bq1.c
              }
if(strcmp(buffer,"exit") == 0){
              }
close(fd);
unlink(FIFO_FILE);
               return 0;
                                                         ^K Cut
^U Paste
                       ^O Write Out
^R Read File
                                        ^W Where Is
^\ Replace
                                                                          ^T Execute
^J Justify
                                                                                           ^C Location
^/ Go To Line
                                                                                                            M-U Undo
M-E Redo
                                                                                                                             M-A Set Mark
M-6 Copy
^G Help
^X Exit
```

Q2)

```
rtjaertja-vtrtuatBox:-$ ts -t /tmp/myrtro
prw-rw-r-- 1 rija rija 0 Mar  8 04:48 /tmp/myfifo
rija@rija-VirtualBox:-$
```

Q3)

```
Mar 8 04:54
                                                                                                                                   rija@rija-VirtualBox: ~
     GNU nano 7.2
                                                                               6bcon.c
     int main(){
               char buffer[BUFSIZ];
ssize_t num_bytes;
               fd = open(FIFO_FILE,O_RDONLY);
               if(fd==-1){
               perror("open");
exit(EXIT_FAILURE);
               printf("consumer: waiting for msgs....\n");
0
               num_bytes = read(fd,buffer,BUFSIZ);
               if(num_bytes>0){
               buffer[num_bytes] = '\0';
printf("consumer: received msgs: %s\n",buffer);
               if(strcmp(buffer,"exit")==0){
     close(fd);
     return 0;
}
                                                                                ^T Execute
^J Justify
                                                                                                                      M-U Undo
M-E Redo
                        ^O Write Out
^R Read File
                                                              ^K Cut
^U Paste
                                                                                                   ^C Location
^/ Go To Line
                                                                                                                                         M-A Set Mark
M-6 Copy
                                           ^W Where Is
                                           ^\ Replace
```

