/\*FIFO Inter Process Communication

Problem Statement: A. FIFOS: Full duplex communication between two independent processes. First process accepts

sentences and writes on one pipe to be read by second process and second process counts number of

characters, number of words and number of lines in accepted sentences, writes this output in a text file

and writes the contents of the file on second pipe to be read by first process and displays on standard

output.

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#include<stdio.h>

#include<fcntl.h>

#include<sys/stat.h>

#include<unistd.h>

int main()

{

int fd,fd1;

char \* myfifo = "myfifo";

char \* myfifo1 = "myfifo1";

char buf[1024];

mkfifo(myfifo,0666);

mkfifo(myfifo1,0777);

fd=open(myfifo,O\_WRONLY);

write(fd,"Hello Everyone! \nWelcome to Progressive Education Society's Modern College of Engineering! \nPune, Maharashtra, India.",sizeof("Hello Everyone! \nWelcome to Progressive Education Society's Modern College of Engineering! \nPune, Maharashtra, India."));

close(fd);

unlink(myfifo);

fd1=open(myfifo1,O\_RDONLY);

read(fd1,buf,sizeof(buf));

printf("%s", buf);

unlink(myfifo1);

close(fd1);

return 0;

}

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Assignment No. 7(A)

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#include<stdio.h>

#include<fcntl.h>

#include<sys/stat.h>

#include<sys/types.h>

#include<unistd.h>

#include<string.h>

int main()

{

int fd,fd1;

char \* myfifo = "myfifo";

char \* myfifo1 = "myfifo1";

char buf[1024], ch[400];

int words=1, character=0, line=1, i=0, j=0;

FILE \*fp;

mkfifo(myfifo1, 0777);

fd=open(myfifo, O\_RDONLY);

read(fd, buf, 1024);

printf("\nFirst message received: \n\n%s\n\n",buf);

while(buf[i]!='\0')

{

while(buf[i]==' ')

{

words++;

i++;

}

while(buf[i]=='\n')

{

line++;

i++;

}

i++;

character++;

}

printf("\nTotal Words := %d\n", words);

printf("\nTotal Lines := %d\n", line);

printf("\nTotal Charactes := %d\n", character);

fp=fopen("test.txt","w+");

fprintf(fp,"\nTotal Words := %d\n", words);

fprintf(fp,"\nTotal Lines := %d\n", line);

fprintf(fp,"\nTotal Charactes := %d\n", character);

fclose(fp);

fp=fopen("test.txt","r");

while(!feof(fp))

{

ch[j]=fgetc(fp);

j++;

}

fclose(fp);

close(fd);

unlink(myfifo);

fd1=open(myfifo1,O\_WRONLY);

write(fd1,ch, strlen(ch));

close(fd1);

return 0;

}