**Process P1**

#include<stdio.h>

#include<stdlib.h>

#include<errno.h>

#include<string.h>

#include<fcntl.h>

#include<sys/types.h>

#include<sys/stat.h>

#include<unistd.h>

#define FIFO\_NAME1 "comm\_pipe1"

#define FIFO\_NAME2 "comm\_pipe2"

int main(){

char s1[300],s2[300];

int num, fd1,fd2,byt;

//printf("producer");

mknod(FIFO\_NAME1, S\_IFIFO | 0660,0);

mknod(FIFO\_NAME2, S\_IFIFO | 0660,0);

printf("waitng for consumer...\n");

fd1= open(FIFO\_NAME1, O\_WRONLY);

fd2= open(FIFO\_NAME2, O\_RDONLY);

printf("fot a consumer--type some stuff\n");

gets(s1);

if((num==write(fd1,s1,strlen(s1)))==-1)

perror("write");

else{

printf("Speak: wrote %d bytes to file1\n",num);

byt=read(fd2,s2,300);

s2[byt]='\0';

printf(" %s\n",s2);

}

close(fd1);

close(fd2);

return 0;

}

**Process C1**

#include<stdio.h>

#include<stdlib.h>

#include<sys/types.h>

#include<unistd.h>

#include<errno.h>

#include<fcntl.h>

#include<sys/stat.h>

#include<string.h>

#define FIFO\_NAME1 "comm\_pipe1"

#define FIFO\_NAME2 "comm\_pipe2"

int main(){

char s[300],vowel[20],send[200];

int num, fd1, fd2, sig,k=0,i,wordcnt=1,charcnt=0,linecnt=0;

FILE \*fp;

fp=fopen("file.txt","w");

mknod(FIFO\_NAME1, S\_IFIFO | 0666, 0);

mknod(FIFO\_NAME2, S\_IFIFO | 0666, 0);

printf("waiting for producers...\n");

fd1=open(FIFO\_NAME1, O\_RDONLY);

fd2=open(FIFO\_NAME2, O\_WRONLY);

printf("got a producer\n");

if((num=read(fd1,s,300))==-1)

perror("read");

else{

s[num]='\0';

printf("Tick: read %d bytes : \"%s\" \n",num,s);

k=0;

vowel[0]='\0';

wordcnt=1;

for(i=0;i<num;i++){

if(s[i]=='a'||s[i]=='e'||s[i]=='i'||s[i]=='o'||s[i]=='u'||s[i]=='A'||s[i]=='E'||s[i]=='I'||s[i]=='O'||s[i]=='U'){

vowel[k]=s[i];

k++;

}

if(s[i]==' ' && s[i+1]!=' ')

wordcnt++;

if(s[i]=='.' && (s[i+1]==' ' || s[i+1]=='\0'))

linecnt++;

else if(s[i]!='.' && s[i]!=' ')

charcnt++;

}

vowel[k]='\0';

sprintf(send,"for the given sentence the word count is %d\nvowel count is %d\ncharacter count is %d\nLines are %d\n",wordcnt,k,charcnt,linecnt);

fprintf(fp,"%s",send);

//strcat(send,vowel);

if((sig=write(fd2,send,strlen(send)))!=-1)

printf("\nwritten successfully to file 2");

else

printf("\nerror in writing to file 2");

}

close(fd1);

close(fd2);

fclose(fp);

return 0;

}

