#include<stdio.h>

#include<stdlib.h>

#include<string.h>

#include<unistd.h>

int main()

{

int x,y,l1,l2,fd1[2],fd2[2];

long int cid;

char s1[20],s2[20];

printf("Enter your first string : ");

scanf("%s",s1);

l1=strlen(s1);

printf("Enter your second string : ");

scanf("%s",s2);

l2=strlen(s2);

x=pipe(fd1);

y=pipe(fd2);

cid=fork();

if(cid<0)

printf("\nError");

else if(cid>0)

{

close(fd1[0]);

write(fd1[1],s1,l1);

sleep(5);

close(fd2[1]);

read(fd2[0],s2,l2);

printf("\nPARENT BLOCK\n");

printf("\nString2 from child is s2= %s",s2);

printf("\n");

}

else

{

sleep(5);

printf("\nCHILD BLOCK\n");

close(fd1[1]);

read(fd1[0],s1,l1);

printf("\nString1 from parent is s1= %s",s1);

printf("\n");

close(fd2[0]);

write(fd2[1],s2,l2);

}

return 0;

}

OUTPUT

Enter your first string : hello

Enter your second string : world

CHILD BLOCK

String1 from parent is s1= hello

PARENT BLOCK

String2 from child is s2= world