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i»¿Name:- Divyesh Mali
Roll No:-27
program No:-10
#include<stdio.h>
#include<unistd.h>
#include<string.h>
#include<stdlib.h>
int main(void)
     int fd1[2], nbytes=1,fd2[2],a=0;
     pid t pid;
     char string[80];
     char readbuffer[80];
     char ch='a',ch1='n';
     FILE *fp;
     pipe(fd1);//PIPE CREATED
     pipe(fd2);//PIPE CREATED
     /*Error in fork*/
     if((pid = fork()) == -1)
           perror("fork");
           exit(1);
     }
     //Child Process
     if(pid == 0)
     {
           close(fd1[1]);
                                     /*closing write end of Pipe 1*/
           read(fd1[0], readbuffer, sizeof(readbuffer));
                                                            /*reading
filename through Pipe 1*/
           printf("\nFilename '%s' is being read by Child Process
through Pipe 1...\n", readbuffer);
           fp=fopen(readbuffer, "r");
           close(fd1[0]);
                                  /*closing read end of Pipe 1*/
                                  /*closing read end of Pipe 2*/
           close(fd2[0]);
           printf("\nContents of %s are being sent to Parent Process
through Pipe 2...\n", readbuffer);
           while (a!=-1)
                 a=fscanf(fp, "%c", &ch);
                 write(fd2[1], &ch, sizeof(ch)); /*writing contents of
file on Pipe 2*/
           close(fd2[1]); /*closing write end of Pipe 2*/
           exit(0);
     //Parent process
     else
           close(fd1[0]); /*closing read end of Pipe 1*/
           printf("IN PARENT PROCESS\n" );
           printf("\nEnter name of file:");
           scanf("%s",string);
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printf("Filename is being sent by Parent Process to Child
Process through Pipe 1...\n");
           write(fd1[1], string, (strlen(string)+1)); /*writing
filename on Pipe 1*/
           close(fd1[1]); /*closing write end of Pipe 1*/
           close(fd2[1]); /*closing write end of Pipe 2*/
           printf("\nContents of %s are being received by Parent Process
through Pipe 2...\n\n",string);
           printf("IN PARENT PROCESS\n" );
           printf("\nReceived Message:\n");
           while(nbytes!=0)
                 printf("%c",ch1);
                 nbytes = read(fd2[0], &ch1, sizeof(ch1)); /*reading
contents of file from Pipe 2*/
           close(fd2[0]); /*closing read end of Pipe 2*/
     return(0);
output:-
pvg-aids-ml@pvgaidsml-HP-ProDesk-400-G4-SFF:~/Desktop/harshada02$ gcc
pract 10.c -o pract 10
pvg-aids-ml@pvgaidsml-HP-ProDesk-400-G4-SFF:~/Desktop/harshada02$
./pract 10
IN PARENT PROCESS
Enter name of file:new1
Filename is being sent by Parent Process to Child Process through Pipe
1...
Contents of new1 are being received by Parent Process through Pipe 2...
IN PARENT PROCESS
Received Message:
Filename 'new1' is being read by Child Process through Pipe 1...
Contents of new1 are being sent to Parent Process through Pipe 2...
а
```