

memory Kopyalanmaktadır. Ve eger siz forkton sonra pipe tonimlar iseniz O process'e 5zel pipe tanımlamış dursunu * Write: Write System call. Doga yarmada da Kullanılır pipe yarmada da.

Write (Pipe UCU, degerin pointer, degerin büyüklügü)

Peturns number of bytes written

* read read (Pipe ocu, butter pointer, degerin böyüklügü)

returns number of bytes read

```
int main(){
   int fd[2]; -> pipe array definition
   //fd[0] for read -> Okumak
   //fd[1] for write -> ypzmax
   if(pipe(fd)==-1){
       printf("There is an error"); _> hata
       return 1;
   //we are opening the pipe before to inherit it to both
   int id=fork();
   if(id==-1){
       printf("There is an error");
       return 2;
   if(id==0) ( -> child
       close(fd[0]); ~ closing use less pipe ends
       int a:
       printf("Write a number:");
       scanf("%d",&a);
       if(write(fd[1],&a,sizeof(int))==-1){
 System printf("There is an error");
           return 4;
       close(fd[1]); -> (losing the pipe
   else( ) parent
       close(fd[1]); - ya 2max
       int c;
       if(read(fd[0](&c, sizeof(int))==-1){
           printf("There is an error");
           return 3;
       printf("Number from other process : %d",c);
       close(fd[0]);
   return 0;
```

```
#include <sys/wait.h>
                                          Q: Sorr
   int fd[2]; -) pipe tonimlama
int main(){
                                             Earr Io:33 ch:16
   int arr[6]={1,2,3,4,5,6};
   int arrsize=sizeof(arr)/sizeof(int);
                                            +

Sarr [3:6] parent
   if(pipe(fd)==-1){
       printf("There is an error");
       return 1;
   int start;
   int end;
   if(id==0){
       start=0;
       end=arrsize/2;
   else{
       start=arrsize/2; 3
       end=arrsize;
   int sum=0;
   for(int i=start;i<end;i++){</pre>
       sum+=arr[i];
       close(fd[0]); > read vconv Lopattik
   if(id==0){
       int sumtop=sum;
       write(fd[1],&sumtop,sizeof(int)); -> porent process e
                                     yollannya
       close(fd[1]); ->write UCUI
                  1/ oupali
   else
       close(fd[1]); -> write ucu Kapattik
       int sumfc;
       read(fd[0],&sumfc,sizeof(int));
       printf("Sum from child: %d\n", sumfc); -> child don gelen
       int totalsum=sum+sumfc;
       printf("Sum from parent is %d\nTotal Sum is: %d",sum,totalsum);
```

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/wait.h>
int main(){
   int fd[2];
   pipe(fd);
    int id=fork();
    if(id==0){
        int x;
                                             Child
        read(fd[0],&x,sizeof(int));
        printf("Recieved %d\n",x);
        x*=5; 6x5=30
        write(fd[1],&x,sizeof(int));
    else{
        int x=6;
        int r;
   b ∠write(fd[1],&x,sizeof(int));
        printf("Sent %d\n",x);
       read(fd[0],&r,sizeof(int)); &
        printf("Final result: %d",r);___36
    close(fd[0]);
    close(fd[1]);
    //solve the problem together by using 2 pipes
```

2 Pipe -> 1 for C 1 for P

```
lers2 > C execlp.c > 😭 main(int, char * [])
                                                    argv = 5"1", "2", "3"}
argv = 3
     #include <stdio.h>
     #include <string.h>
     #include <stdlib.h>
     #include <unistd.h>
     #include <sys/wait.h>
     int main(int argc,char * argv[])[
          int id=fork();
          if(id==0){
              execlp("./execlp2","./execlp2","1","2","3", (char*)(NULL));
11
          else{
12
              wait(NULL);
              printf("End of the process");
15
          return 0;
```

```
ders2 > C execlp2.c > @ main(int, char*[])

1     #include <stdio.h>
2     #include <stdlib.h>
4     #include <unistd.h>
5     #include <sys/wait.h>
6     int main(int argc, char* argv[]){
7         int sum=0;
8         for(int i=1; i<argc;i++){
9            sum+=atoi(argv[i]);
10         }
11         printf["Total sum is %d\n", sum];
12     }</pre>
```