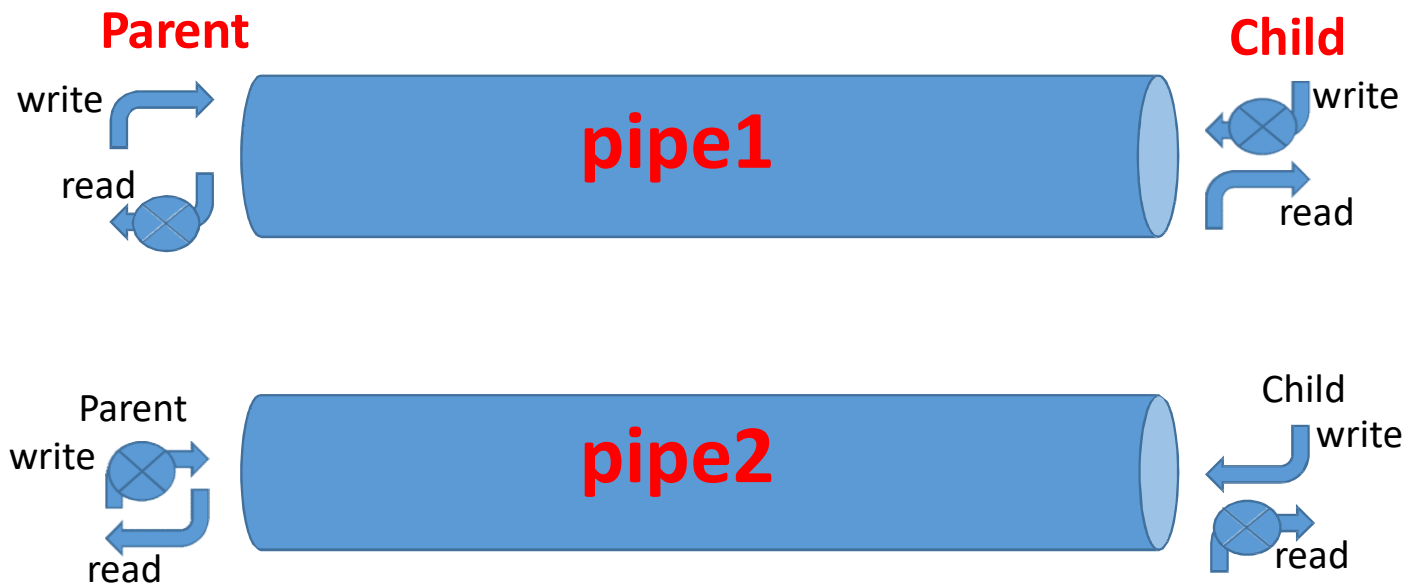


# Pipe

IPC

# IPC- pipe()



# pipe()

```
#include<stdio.h>
#include<unistd.h>
int main() {
    int fds1[2], fds2[2];
    int creationerr,creationerr1;
    int pid;
    char pipe1writemessage[20] = "Hi";
    char pipe2writemessage[20] = "Hello";
    char readmessage[20];
    creationerr= pipe(fds1);
    if (creationerr == -1) {
        printf("Unable to create pipe 1 \n");
        return 1;
    }
    creationerr1 = pipe(fds2);
    if (creationerr1 == -1) {
        printf("Unable to create pipe 2 \n");
        return 1;
    }
}
```

```
pid = fork();
if (pid != 0) {
    close(fds1[0]);
    close(fds2[1]);
    printf("In Parent: Writing to pipe 1 – Message is %s\n", pipe1writemessage);
    write(fds1[1], pipe1writemessage, sizeof(pipe1writemessage));
    read(fds2[0], readmessage, sizeof(readmessage));
    printf("In Parent: Reading from pipe 2 – Message is %s\n", readmessage);
} else {
    close(fds1[1]);
    close(fds2[0]);
    read(fds1[0], readmessage, sizeof(readmessage));
    printf("In Child: Reading from pipe 1 – Message is %s\n", readmessage);
    printf("In Child: Writing to pipe 2 – Message is %s\n", pipe2writemessage);
    write(fds2[1], pipe2writemessage, sizeof(pipe2writemessage));
}
return 0;
}
```