Program to Create two child processes and communicate between parent and children using pipe

```
#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
int main()
{
int pipefds[2];
int p;
int pid1,pid2;
int readmessage[1];
p = pipe(pipefds);
if (p == -1)
{
        printf("Unable to create pipe\n");
        return 1;
}
Pid1 = fork();// Child1
if (pid1 != 0) // Parent process
{
        pid2 = fork(); //Child2
        if (pid2 != 0) // Parent
        {
                for (int i =0;i<10;i++)
                {
                        read(pipefds[0],readmessage, sizeof(readmessage));
                        printf("%d is the number read by parent\n",readmessage[0]);
                 }
        }
        else //Child 2
        {
                for (int i =0; i<5;i++)
                {
                        int rand_n = rand()%100;
                        printf("Child Process 2 - Writing to pipe - Message 1 is %d\n", rand_n);
                        write(pipefds[1], &rand_n, sizeof(rand_n));
                }
        }
}
else //Child 1
{
        for (int i =0; i<5;i++)
        {
                int rand_n = rand()%100;
                printf("Child Process 1- Writing to pipe - Message 1 is %d\n", rand_n);
```

```
                write(pipefds[1], &rand_n, sizeof(rand_n));
        }
}
return 0;
}
```