```
Script started on 2020-03-29 21:43:05+0530
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ gcc case.c - o ca
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ gcc file transer.c
-o file
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ gcc client.c -o c
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ gcc server.c -o s
10:GAYU@GAYU: ~/Desktop/ipc [01:32mGAYU@GAYU [00m: [01:34m~/Desktop/ipc [00m$ cat case.c
#include<sys/ipc.h>
#define NULL 0
#include<sys/shm.h>
#include<sys/types.h>
#include<unistd.h>
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
#include<sys/wait.h>
void strupr(char *a)
for(int i = 0; a[i] != '\0'; i++)
 a[i] = (a[i] > = 'a' & a[i] < = 'z') ? 32 : 0;
int main()
int pid, id;
char *a, *b;
id = shmget(111, 50, IPC CREAT | 00666);
pid = fork();
if(pid > 0)
 a = shmat(id, NULL, 0);
 a[0] = ' \setminus 0';
 printf("Enter a string: ");
 scanf("%s", a);
 wait(NULL);
 shmdt(a);
else
 b = shmat(id, NULL, 0);
 while(b[0] == '\0');
 strupr(b);
 printf("Uppercase: %s\n", b);
 shmdt(b);
shmctl(id, IPC RMID, NULL);
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ cat fie [Kle tra
nser.c
#include <sys/ipc.h>
# define NULL 0
#include <sys/shm.h>
#include <sys/types.h>
#include<unistd.h>
#include<stdio.h>
```

```
#include<stdlib.h>
#include<string.h>
#include <sys/wait.h>
#include <stdio ext.h>
#include<ctype.h>
#include<sys/stat.h>
#include<fcntl.h>
#include<unistd.h>
int main()
char *a,*b,c;
int id,n,i;
int size;
int pid;
int fs;
char *fname;
printf("\n FILE TRANSER \n");
int pid file;
int rd;
pid file = shmget(111,50, IPC CREAT| 00666);
pid=fork();
if(pid>0)
printf("Inside parent process \n");
a = (char*)shmat(pid file,NULL,0);
printf("Enter the file name to be transferred \n");
scanf(" %[^\n]",fname);
fs = open(fname, O RDONLY);
if(fs == -1)
 printf("file does not exists \n");
else
 size = read(fs,a,500);
 a[size] = '\n';
wait(NULL);
close(fs);
shmdt(a);
else
sleep(4);
printf("Inside Child Process \n");
b = (char*)shmat(pid file,NULL,0);
printf("Enter destination file name \n");
scanf("\%[^\n]",fname);
int fd = open(fname,O WRONLY | O CREAT| O TRUNC, S IRUSR|S IRWXU| 00666);
if(fd == -1)
 printf("Destination doesnt exist \n");
 creat(fname,O RDWR | 00666);
```

```
write(fd,b,200);
printf("File copied \n");
close(fd);
shmdt(b);
shmctl(pid file,IPC RMID,NULL);
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ cat server.c
#include<sys/ipc.h>
#define NULL 0
#include<sys/shm.h>
#include<sys/types.h>
#include<unistd.h>
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
#include<sys/wait.h>
int main()
int id;
char *a:
id = shmget(115, 50, IPC CREAT | 00666);
a = shmat(id, NULL, 0);
while(1) {
 a[0] = ' \setminus 0';
 printf("You: ");
 scanf("%s", a);
 if(a[0] == '*') break;
 sleep(1);
 while(a[0] == '\0');
 printf("Server: %s\n", a);
 if(a[0] == '*') break;
printf("Connection Ended!\n");
shmdt(a);
shmctl(id, IPC RMID, NULL);
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ cat client.c
#include<sys/ipc.h>
#define NULL 0
#include<sys/shm.h>
#include<sys/types.h>
#include<unistd.h>
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
#include<sys/wait.h>
int main()
char *a;
int id = shmget(115, 50, IPC CREAT | 00666);
a = shmat(id, NULL, 0);
```

```
while(1) {
 while(a[0] == '\0');
 printf("Client: %s\n", a);
 if(a[0] == '*') break;
 a[0] = '\0';
 printf("You: ");
 scanf("%s", a);
 if(a[0] == '*') break;
 sleep(1);
printf("Connection Ended!\n");
shmdt(a);
shmctl(id, IPC RMID, NULL);
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ ./ca
Enter a string: kasd #
                      asd
                             24
Uppercase: KASDA24
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ ./file
FILE TRANSER
Inside parent process
Enter the file name to be transferred
mcp.c
Inside Child Process
Enter destination file name
check.c
File copied
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ cat check,c [K [
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <errno.h>
#include <unistd.h>
int main(int argc, char *argv[])
int src, dest, rd, wrt;
char c;
char *buff[1024];
if(argc<3 | ]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ ./c [
Ks
You: Hi
Server: Hello
You: HGa
                         ood dat y
            ave a gog
Server: server
You: Server: a
You: Server: good
You: Server: day
You: bye
]0;GAYU@GAYU: ~/Desktop/ipc [01;32mGAYU@GAYU [00m: [01;34m~/Desktop/ipc [00m$ exit
exit
```

// client output Client: Hi

You: Hello server Client: Have

You: Client: server

You: you too Client: you You: Client: too You: \$bye

Script done on 2020-03-29 21:45:34+0530