

SOURCE CODE: 01

```
#include<iostream.h>
#include<bios.h>
#include<conio.h>
#define COM1 0
#define DATA_READY 0X100
#define SETTINGS (0x80|0x02|0x00|0x00)
int main(void)
{
    int in, out, status;
    clrscr();
    bioscom(0,SETTINGS,COM1);
    cprintf("...Bioscom[Esc] to exit...");
    cprintf("\nData sent to you:");
    while(1)
    {
        status=bioscom(3,0,COM1);
        cout<<status<<endl;
        if(status & DATA_READY )
        if((out=bioscom(2,0,COM1) & 0x7F)!=0)
            putch(out);
        //if(kbhit())
        if(1)
        {
            cprintf("Enter Data to sent:");
            if((in=getch())==27)
                break;
            //cout<<"\n";
            putch(in);
            bioscom(1,in,COM1);
            cout<<"\ndata sent\n";
        }
    }
    return 0;
}
```

Source Code: 02

```
#include<stdio.h>
#include<iostream.h>
#include<bios.h>
#include<graphics.h>
#include<stdlib.h>
#include<conio.h>
#define COM1 0
#define DATA_READY 0X100
#define SETTINGS (0x80|0x02|0x00|0x00)
void clr_scr()
{
    clrscr();
    /* request auto detection */
    int gdriver = DETECT, gmode, errorcode;

    /* initialize graphics mode */
    initgraph(&gdriver, &gmode, "C:\WTC\BGI");

    /* read result of initialization */
    errorcode = graphresult();

    if(errorcode != grOk) /* an error occurred */
    {
        printf("Graphics error: %s\n", grapherrmsg(errorcode));
        printf("Press any key to halt:");
        getch();
        exit(1);      /* return with error code */
    }
}

void chat_window()
{
    setcolor(2);
    settextstyle(10,0,2);
    outtextxy(95,12,"...Bioscom[Esc] to exit...");
    setcolor(1);
    outtextxy(215,95,"Transmitted Data");
    gotoxy(15,9);printf(">");
    gotoxy(15,10);printf(">");
    gotoxy(15,11);printf(">");
    gotoxy(15,12);printf(">");
    gotoxy(15,13);printf(">");
    gotoxy(14,14);printf("--->");
    setcolor(1);
    rectangle(95,287,535,422);
    rectangle(98,317,532,419);
    setcolor(6);
    settextstyle(7,0,2);
    outtextxy(240,287,"Received Data");
    gotoxy(15,21);printf(">");
    gotoxy(15,22);printf(">");
    gotoxy(15,23);printf(">");
    gotoxy(15,24);printf(">");
    gotoxy(15,25);printf(">");
    gotoxy(14,26);printf("--->");
}
```

```

int main()
{
clr_scr();
char transmit[5][51]={"\0"};
char receive[5][51]={"\0"};
char blank[51]={"\0"};
int in, out, status,i,j,t,r;
i=j=t=r=0;
chat_window();
bioscom(0,SETTINGS,COM1);
while(in!=27)
{
*****Data Receiving Block*****
status=bioscom(3,0,COM1);
if(status & DATA_READY )
if((out=bioscom(2,0,COM1) & 0x7F)!=0)
if(r<50 && out!="r")
{
if(out==8 && r>0)
{

r--;
gotoxy(16+r,26);
putchar(" ");
}
else
{
gotoxy(16+r,26);
putchar(out);
receive[4-j][r++]=char(out);
}
}
else
{
receive[4-j][r]='\0';
r=0;
gotoxy(16,21);printf("%s",blank);
gotoxy(16,21);
printf("%s",receive[(8-j)%5]);
gotoxy(16,22);printf("%s",blank);
gotoxy(16,22);
printf("%s",receive[(7-j)%5]);
gotoxy(16,23);printf("%s",blank);
gotoxy(16,23);
printf("%s",receive[(6-j)%5]);
gotoxy(16,24);printf("%s",blank);
gotoxy(16,24);
printf("%s",receive[(5-j)%5]);
gotoxy(16,25);printf("%s",blank);
gotoxy(16,25);
printf("%s",receive[(4-j)%5]);
gotoxy(16,26);printf("%s",blank);
}
}
}

```

```

j=(j+1)%5;
}
if(kbhit())
{
in=getch();
bioscom(1,in,COM1);
if(t<50 && in!="\r" && in!=27)
{
if(in==8 && t>0)

{

t--;
gotoxy(16+t,14);
putchar(' ');
}
else
{
gotoxy(16+t,14);
putchar(in);
transmit[4-i][t++]=char(in);
}
}
else if (in!=27)
{
transmit[4-i][t]='\0';
t=0;
gotoxy(16,9);printf("%s",blank);
gotoxy(16,9);
printf("%s",transmit[(8-i)%5]);
gotoxy(16,10);printf("%s",blank);
gotoxy(16,10);
printf("%s",transmit[(7-i)%5]);
gotoxy(16,11);printf("%s",blank);

gotoxy(16,10);printf("%s",blank);
gotoxy(16,10);
printf("%s",transmit[(7-i)%5]);
gotoxy(16,11);printf("%s",blank);
gotoxy(16,11);
printf("%s",transmit[(6-i)%5]);
gotoxy(16,12);printf("%s",blank);
gotoxy(16,12);
printf("%s",transmit[(5-i)%5]);
gotoxy(16,13);printf("%s",blank);
gotoxy(16,13);
printf("%s",transmit[(4-i)%5]);
gotoxy(16,14);printf("%s",blank);
i=(i+1)%5;
}
}
}
/*clean up*/
closegraph();
return 0;
}

```