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#include<stdio.h>
#include<stdlib.h>
#include<unistd.h>
#include<string.h>
#include<arpa/inet.h>

#define PORT 5012

int main()
{

    int server_sock,client_sock,n;
    struct sockaddr_in serveraddr,clientaddr;
    socklen_t addr_size;
    char buf[1024];

    server_sock=socket(AF_INET,SOCK_DGRAM,0);
    if(server_sock ==-1)
    {
        printf("Server not created\n");
        exit(0);
    }
    printf("Server is created successfully\n");

    memset(&serveraddr,'\0',sizeof(serveraddr));
    serveraddr.sin_family=AF_INET;
    serveraddr.sin_port=htons(PORT);
    serveraddr.sin_addr.s_addr=inet_addr("127.0.0.1");
    bind(server_sock,(struct sockaddr*)&serveraddr,sizeof(serveraddr));
    printf("Bind to Port number %d\n",PORT);

    addr_size=sizeof(clientaddr);

    while(1)
    {
        bzero(buf,1024);
        n=recvfrom(server_sock,buf,sizeof(buf),0,(struct sockaddr*)&clientaddr,&addr_size);
        if(n<0)
        {
            printf("Message sending failed\n");
        }
        printf("From Client: %s",buf);
        if(strncmp("exit",buf,4)==0)
        {
            close(client_sock);
            break;
        }
        bzero(buf,1024);
    }
}

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        printf("Enter message\n");
        fgets(buf,sizeof(buf),stdin);
        sendto(server_sock,buf,strlen(buf),0,(struct sockaddr*)&clientaddr,addr_size);
    }

    return 0;
}

```

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```

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#define PORT 5012

```

```

void main()
{
    int clientsock;
    struct sockaddr_in addr;
    char buf[1024];
    socklen_t addr_size;

    clientsock=socket(AF_INET,SOCK_DGRAM,0);
    printf("Client is created succesfully\n");
    memset(&addr,'\0',sizeof(addr));
    addr.sin_family=AF_INET;
    addr.sin_port=htons(PORT);
    addr.sin_addr.s_addr=inet_addr("127.0.0.1");
}

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    addr_size=sizeof(addr);

```

```

while(1)
{
    bzero(buf,1024);
    printf("Enter message\n");
    fgets(buf,sizeof(buf),stdin);
    sendto(clientsock,buf,strlen(buf),0,(struct sockaddr*)&addr,addr_size);
}

```

```

if(strncmp(buf,"exit",4)==0)
{
    printf("Disconnected\n");
    break;
}

```

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    bzero(buf,1024);
}

```

```
    recvfrom(clientsock,buf,sizeof(buf),0,(struct sockaddr*)&addr,&addr_size);
    printf("From Server: %s",buf);
}
    close(clientsock);

}
```

22BR14482@administrator-PowerEdge-R820:~/networklab\$./Udpbserver

Server is created successfully

Bind to Port number 5012

From Client: Mr.Gokul

Enter message

yes

From Client: anything you need

Enter message

nothing fine thanks

From Client: ok

Enter message

ok

From Client: exit

22BR14482@administrator-PowerEdge-R820:~/networklab\$./Udpbclient

Client is created successfully

Enter message

Mr.Gokul

From Server: yes

Enter message

anything you need

From Server: nothing fine thanks

Enter message

ok

From Server: ok

Enter message

exit

Disconnected