LAB ASSIGNMENT - 7

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Code -

Server Side

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
void main(int argc, char **argv){
 if(argc != 2){
  printf("Usage: %s <port>\n", argv[0]);
  exit(0);
 }
 int port = atoi(argv[1]);
 int sockfd;
 struct sockaddr_in si_me, si_other;
 char buffer[1024];
 socklen_t addr_size;
```

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```
sockfd = socket(AF_INET, SOCK_DGRAM, 0);
 memset(&si_me, '\0', sizeof(si_me));
 si me.sin family = AF INET;
 si me.sin port = htons(port);
 si_me.sin_addr.s_addr = inet_addr("127.0.0.1");
 bind(sockfd, (struct sockaddr*)&si_me, sizeof(si_me));
 addr_size = sizeof(si_other);
 recvfrom(sockfd, buffer, 1024, 0, (struct sockaddr*)& si_other, &addr_size);
 printf("[+]Data Received: %s", buffer);
}
Client Side
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <netinet/in.h>
#include <arpa/inet.h>
void main(int argc, char **argv){
 if(argc != 2){
  printf("Usage: %s <port>\n", argv[0]);
Grihit Budhiraja 19BCE2141
```

```
exit(0);
 }
 int port = atoi(argv[1]);
 int sockfd;
 struct sockaddr in serverAddr;
 char buffer[1024];
 socklen_t addr_size;
 sockfd = socket(PF_INET, SOCK_DGRAM, 0);
 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");
 strcpy(buffer, "Hello Server\n");
 sendto(sockfd, buffer, 1024, 0, (struct sockaddr*)&serverAddr,
sizeof(serverAddr));
 printf("[+]Data Send: %s", buffer);
}
```

Output -

Server Side

Client Side