TCP-SERVER

PROGRAM

```
#include <stdio.h>
#include <netdb.h>
#include <netinet/in.h>
#include <stdlib.h>
#include <string.h>
#include <sys/socket.h>
#include <sys/types.h>
#include <unistd.h>
#define MAX 80
#define PORT 8080
#define SA struct sockaddr
void func(int connfd)
char buff[MAX];
int n;
for (;;) {
bzero(buff, MAX);
read(connfd, buff, sizeof(buff));
printf("From client: %s\t To client: ", buff);
bzero(buff, MAX);
n = 0;
while ((buff[n++] = getchar()) != '\n')
write(connfd, buff, sizeof(buff));
if (strncmp("exit", buff, 4) == 0) {
printf("Server Exit...\n");
break;
}
int main()
int sockfd, connfd, len;
struct sockaddr in servaddr, cli;
sockfd = socket(AF_INET, SOCK_STREAM, 0);
if (\operatorname{sockfd} == -1) {
printf("socket creation failed...\n");
exit(0);
}
else
printf("Socket successfully created..\n");
bzero(&servaddr, sizeof(servaddr));
servaddr.sin_family = AF_INET;
servaddr.sin addr.s addr = htonl(INADDR ANY);
servaddr.sin_port = htons(PORT);
```

```
if ((bind(sockfd, (SA*)&servaddr, sizeof(servaddr))) != 0) {
printf("socket bind failed...\n");
exit(0);
}
else
printf("Socket successfully binded..\n");
if ((listen(sockfd, 5)) != 0) {
printf("Listen failed...\n");
exit(0);
}
else
printf("Server listening..\n");
len = sizeof(cli);
connfd = accept(sockfd, (SA*)&cli, &len);
if (connfd < 0) {
printf("server accept failed...\n");
exit(0);
}
else
printf("server accept the client...\n");
func(connfd);
close(sockfd);
```

OUTPUT