MAYANK SINHA RA1911003010386 G1 Week 9: REMOTE COMMAND EXECUTION USING UDP Aim: To study remote command execution uing UDP. Code:

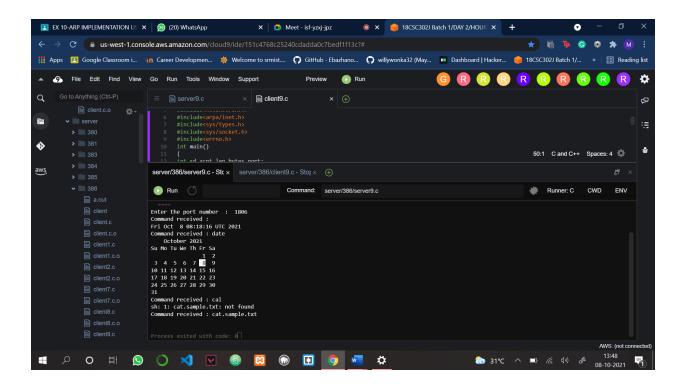
```
Server program
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<unistd.h>
#include<netinet/in.h>
#include<arpa/inet.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<errno.h>
int main()
{
int sd,acpt,len,bytes,port;
char send[50],receiv[50];
struct sockaddr_in serv,cli;
if((sd=socket(AF INET,SOCK STREAM,0))<0)
printf("Error in socket\n");
exit(0);
}
bzero(&serv,sizeof(serv));
printf("Enter the port number : ");
scanf("%d",&port);
serv.sin family=AF INET;
serv.sin_port=htons(port);
serv.sin addr.s addr=htonl(INADDR ANY);
if(bind(sd,(struct sockaddr *)&serv,sizeof(serv))<0)</pre>
printf("Error in bind\n");
exit(0);
if(listen(sd,3)<0)
printf("Error in listen\n");
exit(0);
if((acpt=accept(sd,(struct sockaddr*)NULL,NULL))<0)</pre>
```

```
printf("\n\t Error in accept");
exit(0);
}
while(1)
bytes=recv(acpt,receiv,50,0);
receiv[bytes]='\0';
if(strcmp(receiv ,"end")==0)
close(acpt);
close(sd);
exit(0);
else
printf("Command received : %s",receiv);
system(receiv);
printf("\n");
}
}
Client program
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<unistd.h>
#include<netinet/in.h>
#include<arpa/inet.h>
#include<sys/types.h>
#include<sys/socket.h>
#include<errno.h>
int main()
{
int sd,acpt,len,bytes,port;
char send1[50],receiv[50];
struct sockaddr_in serv,cli;
if((sd=socket(AF_INET,SOCK_STREAM,0))<0)</pre>
printf("Error in socket\n");
```

```
exit(0);
}
bzero(&serv,sizeof(serv));
printf("Enter the port number : ");
scanf("%d",&port);
serv.sin_family=AF_INET;
serv.sin_port=htons(port);
serv.sin_addr.s_addr=htonl(INADDR_ANY);
if(connect(sd,(struct sockaddr *)&serv,sizeof(serv))<0)</pre>
printf("Error in connection\n");
exit(0);
}
while(1)
printf("Enter the command:");
gets(send1);
if(strcmp(send1,"end")!=0)
send(sd,send1,50,0);
}
else
send(sd,send1,50,0);
close(sd);
break;
}
```

OUTPUT:

server:



client:

