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//B20CS1130
//Experiment 15
//TCP Sal Server
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<netinet/in.h>
#include<sys/socket.h>
#include<sys/types.h>
#include<unistd.h>
void main(){
       printf("Server side\n");
       char buffer[50];
       int sockfd,newsocket;
       struct sockaddr_in addr1,addr2;
       addr1.sin_family=AF_INET;
       addr1.sin_addr.s_addr=INADDR_ANY;
       addr1.sin port=3008;
       int s=sizeof(struct sockaddr_in);
       sockfd=socket(AF_INET,SOCK_STREAM,0);
       bind(sockfd,(struct sockaddr*)&addr1,sizeof(addr1));
       listen(sockfd,5);
       newsocket=accept(sockfd,(struct sockaddr*)&addr2,(&s));
       int base,hra,da,pt,epf,total;
       do{
              printf("Connection established\n");
              printf("Receiving message from client\n");
              recv(newsocket,buffer,sizeof(buffer),0);
              base=atoi(buffer);
              printf("Base Salary: %d\n",base);
              recv(newsocket,buffer,sizeof(buffer),0);
              hra=atoi(buffer);
              printf("HRA: %d\n",hra);
              recv(newsocket,buffer,sizeof(buffer),0);
              da=atoi(buffer);
              printf("DA: %d\n",da);
              recv(newsocket,buffer,sizeof(buffer),0);
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pt=atoi(buffer);
              printf("PT: %d\n",pt);
              recv(newsocket,buffer,sizeof(buffer),0);
              epf=atoi(buffer);
              printf("EPF: %d\n",epf);
              total=base+hra+da-pt-epf;
              sprintf(buffer,"%d",total);
              send(newsocket,buffer,sizeof(buffer),0);
       }while(strcmp(buffer, "stop")!=0);
       close(newsocket);
       close(sockfd);
//TCP Sal Client
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<netinet/in.h>
#include<sys/socket.h>
#include<sys/types.h>
#include<unistd.h>
void main(){
       printf("Client Side\n");
       char buffer[50];
       int sockfd;
       sockfd=socket(AF_INET,SOCK_STREAM,0);
       struct sockaddr_in addr1,addr2;
       addr2.sin family=AF INET;
       addr2.sin_addr.s_addr=INADDR_ANY;
       addr2.sin_port=3008;
       connect(sockfd,(struct sockaddr*)&addr2,sizeof(addr2));
       do{
              printf("Enter basic salary: ");
              scanf("%s",buffer);
              send(sockfd,buffer,sizeof(buffer),0);
              printf("Enter HRA: ");
              scanf("%s",buffer);
              send(sockfd,buffer,sizeof(buffer),0);
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printf("Enter DA: ");
              scanf("%s",buffer);
              send(sockfd,buffer,sizeof(buffer),0);
              printf("Enter PT: ");
              scanf("%s",buffer);
              send(sockfd,buffer,sizeof(buffer),0);
              printf("Enter EPF: ");
              scanf("%s",buffer);
              send(sockfd,buffer,sizeof(buffer),0);
              recv(sockfd,buffer,sizeof(buffer),0);
              printf("Total Salary: %s\n",buffer);
       }while(strcmp(buffer, "stop")!=0);
       close(sockfd);
}
OUTPUT
s6cs130@comp62:~$ gcc server.c
s6cs130@comp62:~$ ./a.out
Server side
Connection established
Receiving message from client
Base Salary: 45000
HRA: 4500
DA: 3000
PT: 450
EPF: 69
s6cs130@comp62:~$ gcc client.c
s6cs130@comp62:~$ ./a.out
Client Side
Enter basic salary: 45000
Enter HRA: 4500
Enter DA: 3000
Enter PT: 450
Enter EPF: 69
Total Salary: 51981
Enter basic salary: ^C
*/
```