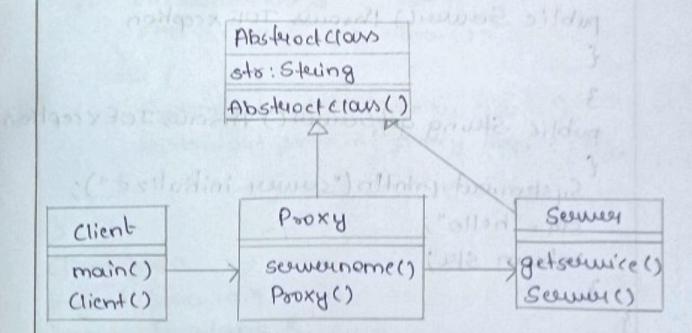
3) Drow the Class model too Proxy pattern and white the Jana code to implement the Same.

Objective !-

the proxy pattern design moles client in compliment communication with representative sather than component itself.

class Diagrom !-



Jana lode Amplementohion

AbstroctClaw.jana

impost jana.io,*;

impost jana.lang.*;

public claw AbstroctClaw

public String str;

public AbstroctClaw() throws IOException

```
PSACAMENT NA
     Sty="";
moun the class model for Bery patient and
ozo off formelam a soos publis odt stipus
Sewer jana
import jana.io, *;
impost jana leng. *;
public clan Seemer extends Abstract Class
  public Proxy thepooxy;
  public Server () throws IDException
  public Stering get Server () throws IDException
   System. out. println ("seewer initialize");
   ster = "hello";
  sehren ster;
Proxy. jana
              compliant good stoll swill
impost jama, lo. *;
                        Duck of Class Cause
impost jana. lang . *;
public class Proxy extends Abstroct Class
  public Server the Server;
  public Abstract Clars the abclars;
  public Client theclient:
```

```
public Proxy () throws FOException
                 monoxist. Service Marge ():
      public uoid SermenName () throws IDException
       System.out.println ("InProxy");
       if (styz="")
        System.out. println ("InTrying to get Connected")
        theserver = new Server();
         ster=thesewer.getsever();
                           astlatini muusi
       else f
         System. out print In ("proxy you...");
         System. out. print In ("proxy boys"+ sty);
   Client jana.
impost jana.io.*;
   impost java long . *; I de de la de la la tout
  public class Client many sallos and popular
                   and supplied of brevious the
    public Stotic usid moin (Stelling augs (1) throws
         to Exception
      Proxy mproxy = new Proxy ();
       System. out. println ("first time establishing
              connection (n");
```

mproxy. Serwer Nome ();
System.out.println ("serond hime);
mproxy. Serwer Name ();
3

Output! - first time establishing Connection

Proxy top of enine at although too motore

toying to get Connected was second time

Proxy you
proxy soys hello.

Assume that you are going to create a mobile app that will be used by all people in the society for buying items online within your four. Now you are supposed to conduct an ethnographic shidy, so prepare a appropriate that includes all the question that you would like to ask with users the explain how you careayout focused ethnographic shidy.

ar lattering two mot 2/13

I was a compression of a state of the

	Questionnoire!
*	Beckground Anformation:
15.1	-> Nome on Alle two bonneys bonneys worker
	-> Age
	-> Occupation was salt william gaingous souling in
	-> Income smaller book months a
	-> How long have you lived in this fower?
.*	Unline shopping Habits
EN.	Do you convently shop too items onlines
	Toward type of items do you most frequently buy
	Tourse of the state of the stat
	or which online platforms we apps do you use las
	epobbind;
	shopping? -> What motivates you to shop online instead of in physical stores.
*	igin joint and challenges
	-> whot challenges have you faced while shopping
	entire wa fitti this hown?
	-> Any specific related issues to local delivery service?
	-> Any longuoge or cultural baruriers while using
	the existing apps for shopping,
	- How do you provolly par for
	-> How do you hypically pay for your online purchases
	-> Any difficulties with payment method?
·#	features would make your online shopping more constenient?
	> What features would make your online shopping
	more convienient ?
	-> Interested in local discounts, promotions & deals?
*	Security and Toust.

-> what would increase your terest in a new shopping app?

-> Have you experienced issues with slome or froud in online shopping within the town?

* Delivery and Rehvens.

-> How satisfied are you with delivery options anailable for online purchases?

online what was the experience like?

-> what improvements can be made to sehous process

* Mobile App -> How ferequently do you use mobile apps for various pumposess existing -> Are there any features in mobile opp ferus troking

* Feedback on Existing Hpps >Do you cureently we any local online shopping apps ? Any improvements for existing apps.

* Preferred Communication Channels

-> How doyou prefer to receive updates, deals
and notification from a shopping App?

* Any additional Comments or suggestions-

Carrying out the focused Ethnogrophic Study.

*Powhicipant Sclection!

select a diverse group of potential end users who represent vorious demographics, including age occupation and income.

· an-depth interviews

Conduct in-depth interwiews with posticipents to dive deepes into their expessionces, attitude and challenges related to online shopping with the form.

* Contextual anguisy.

Visit their homes or workplaces to better undustronal their daily lives and how poline shopping fits into their? routines.

Note-toking & Documentotion.

Take detailed notes, photos and secondings to capture insights and key findings during the study.

* Data Analysis

Andyse the collected data to identify common point points preferences and needs of the pasticipants.

* Aterative Feedbock:

Use the findings to iteratively suffice the app's design and features, ensuring it addresses the specific needs and challenges identified during the ethnographic shudy, continuously iterate until the app meets end-users needs effectively.