**Aim:**

To write a program to create an object of class user which derive from class server\_login and this class also derive from class server\_security which stores Essential details for Login .All the three classes should have getdata() & putdata() to access it data members .

**Source Code:**

#include<iostream.h>

#include<conio.h>

#include<stdio.h>

class server\_security

{

private:

char password[40];

char security\_question[50];

char security\_ans[20];

public:

void getdata()

{

cout<<"\n Enter the Password : ";

cin>>password;

cout<<" Enter The Security Question : ";

gets(security\_question);

cout<<" Enter the answer of Security Question : ";

gets(security\_ans);

}

void putdata()

{ cout<<"\n The Password : ";

cout<<password;

cout<<"\n The Security Question : ";

cout<<security\_question;

cout<<"\n Enter the answer of Security Question : ";

cout<<security\_ans;

}

};

class server\_login : public server\_security

{

private:

char protocol[10];

char site\_name[15];

char id[36];

char domain[10];

public:

server\_login()

{

cout<<"\n\nMESSAGE : Reciving Login Details .... \n";

}

void getdata()

{

cout<<"\n Enter the Transfer Protocol : ";

cin>>protocol;

cout<<" Enter the Site Name : ";

gets(site\_name);

cout<<" Enter the Domain : ";

cin>>domain;

cout<<" Enter the Remote Login ID : ";

gets(id);

server\_security :: getdata();

}

void putdata()

{

cout<<"\n The Transfer Protocol : ";

cout<<protocol;

cout<<"\n The Site Name : ";

cout<<site\_name;

cout<<"\n The Domain : ";

cout<<domain;

cout<<"\n Remote Login ID : ";

cout<<id;

server\_security :: putdata();

}

};

class user : public server\_login

{

private:

char f\_name[20];

char l\_name[20];

long double one;

public:

user()

{

cout<<"\n Reading in User Details : ";

}

void getdata()

{

cout<<"\n Enter The First Name of User : ";

gets(f\_name);

cout<<" Enter The Last Name of the User : ";

gets(l\_name);

cout<<" Enter the security code No. : ";

cin>>one;

server\_login :: getdata();

}

void putdata()

{

cout<<"\n The First Name of the User is : ";

cout<<f\_name;

cout<<"\n The Last Name of the User is : ";

cout<<l\_name;

cout<<"\n The Phone No. of the User is : ";

cout<<one;

server\_login :: putdata();

}

};

void main()

{

clrscr();

user a1;

cout<<"\n Object Created of size : ";

cout<<sizeof(a1);

cout<<" Bytes ";

a1.getdata();

getch();

clrscr();

cout<<" Dispalyin Object a1 of size : ";

cout<<sizeof(a1);

cout<<" Bytes\n\n ";

a1.putdata();

getch();

}

**Output :**

