Question:1

```cpp
#include<bits/stdc++.h>
using namespace std;
class CalculateAreaOfRectangle
{
public:
    void getValue(double x,double y)
    {
        double Area=0;
        Area=x*y;
    }
    void showArea()
    {
        double Area;
        cout<<Area;
    }
};
int main()
{
    double x,y;
    CalculateAreaOfRectangle s;
    cout<<"Enter the value of Length and Width:";
    cin>>x>>y;
    s.getValue(x,y);
    s.showArea();
```

```cpp
    return 0;}
```

Question:2

```cpp
#include<bits/stdc++.h>

using namespace std;

class CalculateAreaOfRectangle

{

public:

    void getValue(double x,double y);

    void showArea();


};

void CalculateAreaOfRectangle :: getValue(double x,double y)

{

    double Area=0;

    Area=x*y;

}

void CalculateAreaOfRectangle :: showArea()

{

    double Area;

    cout<<Area;

}

int main()

{

    double x,y;

    CalculateAreaOfRectangle s;

    cout<<"Enter the value of Length and Width:";

    cin>>x>>y;

    s.getValue(x,y);

    s.showArea();
```

```cpp
    return 0;}
```

Question:3

```cpp
#include<bits/stdc++.h>

using namespace std;

class Facebook

{

private:

    string password,email,gender,birth_year;

    int phone;

public:

    string user_name,full_name, about,institution,lives_in;

    int friends;

    void getData()

    {

        string password_p,email_p,gender_p,birth_year_p;

        int phone_p;


        getline(cin,user_name);

        getline(cin>>ws,full_name);

        cin>>friends;

        getline(cin>>ws,about);

        getline(cin>>ws,institution);

        getline(cin>>ws,lives_in);


        getline(cin>>ws,password);

        getline(cin>>ws,email);

        cin>>phone_p;

        getline(cin>>ws,gender);

        getline(cin>>ws,birth_year);
```

```cpp
    }
    void showData()
    {
        cout<<user_name<<endl;
        cout<<full_name<<endl;
        cout<<friends<<endl;
        cout<<about<<endl;
        cout<<institution<<endl;
        cout<<lives_in<<endl;
        cout<<password<<endl;
        cout<<email<<endl;
        cout<<phone<<endl;
        cout<<gender<<endl;
        cout<<birth_year<<endl;
    }

};


int main()

{
    Facebook s;
    s.getData();
    s.showData();
    return 0;

}
```

Question:4

```cpp
#include<bits/stdc++.h>

using namespace std;

class Facebook
{
private:
    string password,email,gender,birth_year;
    int phone;
public:
    string user_name,full_name, about,institution,lives_in;
    int friends;
    void getData();
    void showData();
};
void Facebook :: getData()
{
    getline(cin,user_name);
    getline(cin>>ws,full_name);
    cin>>friends;
    getline(cin>>ws,about);
    getline(cin>>ws,institution);
    getline(cin>>ws,lives_in);
    getline(cin>>ws,password);
    getline(cin>>ws,email);
    cin>>phone;
    getline(cin>>ws,gender);
    getline(cin>>ws,birth_year);
}
```

```cpp
void Facebook::showData()
{
   cout<<user_name<<endl;
   cout<<full_name<<endl;
   cout<<friends<<endl;
   cout<<about<<endl;
   cout<<institution<<endl;
   cout<<lives_in<<endl;
   cout<<password<<endl;
   cout<<email<<endl;
   cout<<phone<<endl;
   cout<<gender<<endl;
   cout<<birth_year<<endl;
}
int main()
{
   Facebook s;
   s.getData();
   s.showData();
   return 0;
}
```

Question:5

```cpp
#include<bits/stdc++.h>
using namespace std;
class student
{
public:
   string name,id,sec;
   friend void getData(student &s);
```

```cpp
    friend void showData(student s);

};


  void getData(student &s)

{

   getline(cin,s.name);

   getline(cin>>ws,s.id);

   getline(cin>>ws,s.sec);

}

  void showData(student s)

{


   cout<<s.name<<endl;

   cout<<s.id<<endl;

   cout<<s.sec<<endl;

}

int main()

{

   student s;

   getData(s);

   showData(s);

   return 0;

}
```

Question:6

```cpp
#include<bits/stdc++.h>

using namespace std;

class student

{
```

```cpp
    public:

    string name,id,sec;

    int arr[20];

    void getValue();

    friend void showData();

};

void student::getValue()

{

    getline(cin,name);

    getline(cin>>ws,id);

    getline(cin>>ws,sec);

}

 void showData(student s)

{

    cout<<s.name<<endl;

    cout<<s.id<<endl;

    cout<<s.sec<<endl;

}

int main()

{

    class student s;

    s.getValue();

    showData(s);

    return 0;

}
```

Thank you.