**1.SOURCE CODE:**

#include<iostream>

using namespace std;

class rational{

private:

int nume, deno;

public:

void getdata(){

cout<<"Enter the two numbers:"<<endl;

cin>>nume>>deno;

}

friend void maxnumber(rational r1);

};

void maxnumber(rational r1){

if(r1.nume>>r1.deno){

cout<<"The maximum number is => "<<r1.nume<<endl;}

else {

cout<<"The maximum number is => "<<r1.deno<<endl;

}

}

int main(){

rational r1;

r1.getdata();

maxnumber(r1);

return 0;

}

**OUTPUT:**

Enter the two numbers:

3

5

The maximum number is => 5

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Process exited after 4.23 seconds with return value 0

Press any key to continue . . .

**2.SOURCE CODE:**

#include<iostream>

using namespace std;

class class2;

class class1{

private:

int x;

public:

void getdata(){

cout<<"Enter the fist number:"<<endl;

cin>>x;

}

friend void adddata(class1 c1, class2 c2);

};

class class2{

private:

int y;

public:

void getvalue(){

cout<<"Enter the second number:"<<endl;

cin>>y;

}

friend void adddata(class1 c1, class2 c2);

};

void adddata(class1 c1, class2 c2){

int r;

r = c1.x + c2.y;

cout<<"The sum of the two numbers is => "<<r<<endl;

}

int main(){

class1 c1;

class2 c2;

c1.getdata();

c2.getvalue();

adddata(c1,c2);

return 0;

}

**OUTPUT:**

Enter the fist number:

5

Enter the second number:

3

The sum of the two numbers is => 8

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Process exited after 3.93 seconds with return value 0

Press any key to continue . . .

**3.SOURCE CODE:**

#include<iostream>

using namespace std;

class class2;

class class3;

class class1{

private:

int x;

public:

void getdata(){

cout<<"Enter the fist number:"<<endl;

cin>>x;

}

friend void adddata(class1 c1, class2 c2, class3 c3);

};

class class2{

private:

int y;

public:

void getvalue(){

cout<<"Enter the second number:"<<endl;

cin>>y;

}

friend void adddata(class1 c1, class2 c2 , class3 c3);

};

class class3{

private:

int z;

public:

void getvalue(){

cout<<"Enter the third number:"<<endl;

cin>>z;

}

friend void adddata(class1 c1, class2 c2, class3 c3);

};

void adddata(class1 c1, class2 c2, class3 c3){

int r;

r = c1.x + c2.y + c3.z;

cout<<"The sum of the three numbers is => "<<r<<endl;

}

int main(){

class1 c1;

class2 c2;

class3 c3;

c1.getdata();

c2.getvalue();

c3.getvalue();

adddata(c1,c2,c3);

return 0;

}

**OUTPUT:**

Enter the fist number:

5

Enter the second number:

7

Enter the third number:

9

The sum of the three numbers is => 21

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Process exited after 4.023 seconds with return value 0

Press any key to continue . . .

DISCUSSION:

In the lab fourth of object oriented programming with C++ we learnt about classes. Also we learnt about friend function, taking arguments, declaration and definition of function and about calling functions. We learned about some operators of C++ too.