Write a program that illustrate the following relationship and comment the relationships.

```
i)
      const_object.non_const_mem_function
ii)
      const_object.const_mem_function
      non const object.non const mem function
iii)
iv)
      non const object.const mem function
#include <iostream>
#define SUCCESS 0
using namespace std;
class Class
{
private:
 const int id;
public:
 Class(int i):id(i){};
 int const_get()const
  return id;
int get()
  return id;
};
int main()
 Class a(1);
 cout <<"non const object calling non const mem func "<< a.get()<<endl; // non const
object. non const mem func
 cout << "non const object calling const mem func "<<a.const_get()<<endl; // non</pre>
const object. const mem
 const Class c(2);
 cout << "const object calling const mem func "<<c.const_get(); // const object.cont</pre>
mem func
// cout << c.get(); cannot be called</pre>
return SUCCESS;
}
```

```
#include<iostream>//i.or
using namespace std;
class cls1
  int a,b;
public:
  cls1(int x, int y)
  {
    a=x;
    b=y;
  }
  void show()
    cout<<"a="<<a<<"\tb="<<b<<endl;
};
int main()
  const cls1 o1(3,4),o2(7,9);
  cout<<"For o1:\t"<<endl;</pre>
  o1.show();
  cout<<"For o2:\t"<<endl;
  o2.show();
}
#include<iostream>//ii.or
using namespace std;
class cls1
  int a,b;
public:
  cls1(int x, int y)
  {
    a=x;
    b=y;
  void show() const
    cout<<"a="<<a<<"\tb="<<b<<endl;
  }
```

```
};
int main()
  const cls1 o1(3,4),o2(7,9);
  cout<<"For o1:\t"<<endl;</pre>
  o1.show();
  cout<<"For o2:\t"<<endl;
  o2.show();
}
#include<iostream>//iii.or
using namespace std;
class cls1
  int a,b,sum;
public:
  cls1(int x, int y)
    a=x;
    b=y;
    sum=0;
  void add()
    sum=a+b;
  void show()
    cout<<"Sum = "<<sum<<endl;</pre>
  }
};
int main()
  cls1 o1(3,4);
  o1.add();
  o1.show();
}
#include<iostream>//iv.or
using namespace std;
```

```
class cls1
 int a,b,sum;
public:
  cls1(int x, int y)
    a=x;
    b=y;
    sum=0;
 void add() const
  {
    sum=a+b;
  void show() const
    cout<<"Sum = "<<sum<<endl;</pre>
 }
};
int main()
  cls1 o1(3,4);
  o1.add();
 o1.show();
}
```