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//To show the usage of abstract class and abstract method with inheritance (Three CLASSES
only) in java
abstract class A
    abstract void input();
    void output()
                                                 // This method is only accessible to "class B"
    object only.
        System.out.println("This is regular method of class A");
}
abstract class B extends A
    abstract void get();
    void disp()
        System.out.println("This is method of class B");
    //As class B is also abstract therefore no one has access to "class A" void output()
    method. So, it is a waste here but definitely maintains a hierarchy.
}
class C extends B
    void input()
        System.out.println("This is overriden method of class A in class C");
    }
    void get()
        System.out.println("This is overriden method of class B in class C");
}
class Abstract Main2
    public static void main(String args[])
    {
        C obj=new C();
        obj.get();
        obj.input();
        //obj.output();
                                // you cannot call class A method with class C object because
        class C object will be jumping the hierarchy which is not allowed in java.
                                // If program run, then it will show error "void output()
                                method not declared" because class C object can access only
                                class B methods and variables.
        obj.disp();
                                 Output
    }
```

C:\Users\Dhruv\Desktop\Java>javac Abstract_Main2.java
C:\Users\Dhruv\Desktop\Java>java Abstract_Main2
This is overriden method of class B in class C
This is overriden method of class A in class C
This is method of class B