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```
Main.java
1 class Parent{
2     void display(){
3         System.out.println("this is the parent class");
4     }
5     void show(int num){
6         System.out.println("the num is the parent class is"+num);
7     }
8 }
9 class Child extends Parent{
10     void display(){
11         System.out.println("this is the child class");
12     }
13     void show(double num){
14         System.out.println("this num is the child class is"+num);
15     }
16 }
17 public class Main{
18     public static void main(String[] args){
19         Parent parentObj= new Parent();
20         Child childObj = new Child();
21         parentObj.show(5);
22         childObj.show(7.5);
23         parentObj.display();
24         childObj.display();
25     }
26 }
```

the num is the parent class is5  
this num is the child class is7.5  
this is the parent class  
this is the child class

...Program finished with exit code 0  
Press ENTER to exit console.



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Main.java

```
1 class Animal{
2     public void eat(){
3         System.out.println("i can eat");
4     }
5 }
6 class Dog extends Animal {
7     public void eat(){
8         super.eat();
9         System.out.println("i eat dog food");
10    }
11    public void bark(){
12        System.out.println("i can bark");
13    }
14 }
15 class Main{
16     public static void main(String[] args){
17         Dog labrador = new Dog();
18         labrador.eat();
19         labrador.bark();
20     }
21 }
```

input

```
i can eat
i eat dog food
i can bark
```

```
...Program finished with exit code 0
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```





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Main.java

```
1 class Main{
2     public static void main(String[] args){
3         final int AGE = 32;
4         final static int AGE = 32;
5         class A extends Main{
6             public static void main(String[] args){
7                 AGE = 35;
8             }
9         }
10    }
11 }
```

input

Compilation failed due to following error(s).

Main.java:4: error: modifier static not allowed here  
final static int AGE = 32;  
^

Main.java:7: error: cannot assign a value to final variable AGE  
AGE = 35;  
^



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```
FinalDemo.java :
1 class FinalDemo{
2     public final void display() {
3         System.out.println("this is a final method");
4     }
5 }
6 class Main extends FinalDemo {
7     public final void display(){
8         System.out.println("This final method is overridden");
9     }
10    public static void main(String[] args){
11        Main obj = new Main();
12        obj.display();
13    }
14 }
```

input

Compilation failed due to following error(s).

```
FinalDemo.java:7: error: display() in Main cannot override display() in FinalDemo
    public final void display(){
                   ^
    overridden method is final
1 error
```



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FinalClass.java :

```

1 final class FinalClass{
2     public void FinalClass(){
3         System.out.println("This is the final method");
4     }
5 }
6 class Main extends FinalClass {
7     public void display(){
8         System.out.println("the final method is overridden");
9     }
10    public static void main(String[] args){
11        Main obj = new Main();
12        obj.display();
13    }
14 }

```

Compilation failed due to following error(s).

```

FinalClass.java:6: error: cannot inherit from final FinalClass
class Main extends FinalClass {
               ^
1 error

```

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Main.java

```
1 class FinalClass{
2     public void FinalClass(){
3         System.out.println("This is the final method");
4     }
5 }
6 class Main extends FinalClass {
7     public void display(){
8         System.out.println("the final method is overridden");
9     }
10    public static void main(String[] args){
11        Main obj = new Main();
12        obj.display();
13    }
14 }
15 //contructor chaining
```

the final method is overridden

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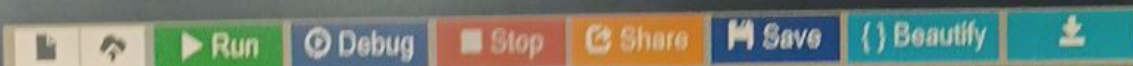
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Main.java

```
1 //constructor chaining
2 class Main{
3     int sum;
4     Main(){
5         //calling the second constructor
6         this(5,2);
7     }
8     Main(int arg1, int arg2){
9         this.sum = arg1 + arg2;
10    }
11    void display(){
12        System.out.println("sum is:"+sum);
13    }
14    }
15    public static void main(String[] args){
16        Main obj = new Main();
17        obj.display();
18    }
19 }
20
```

sum is:7

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