

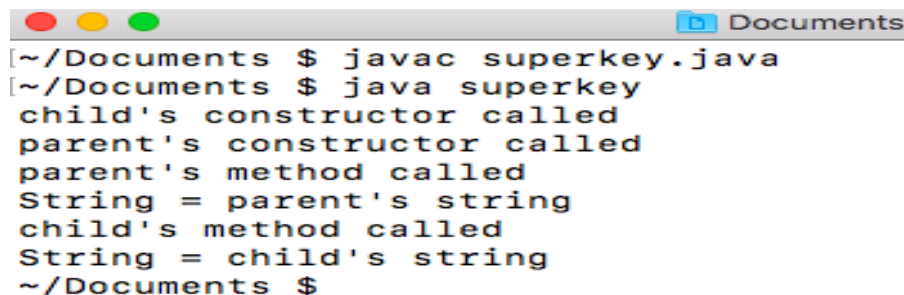
PROGRAM-

OBJECTIVE: Write a java program to demonstrate Super keyword.

CODE:

```
class child{
    String str;
    child(){
        System.out.println("child's constructor called");
        str="child's string";
    }
    void print(){
        System.out.println("child's method called");
        System.out.println("String = "+str);
    }
}
class parent extends child{
    String str;
    parent(){
        super();
        System.out.println("parent's constructor called");
        str="parent's string";
    }
    void print(){
        System.out.println("parent's method called");
        System.out.println("String = "+str);
        super.print();
    }
}
class superkey{
    public static void main(String args[]){
        parent obj=new parent();
        obj.print();
    }
}
```

OUTPUT:



```
~/Documents $ javac superkey.java
~/Documents $ java superkey
child's constructor called
parent's constructor called
parent's method called
String = parent's string
child's method called
String = child's string
~/Documents $
```

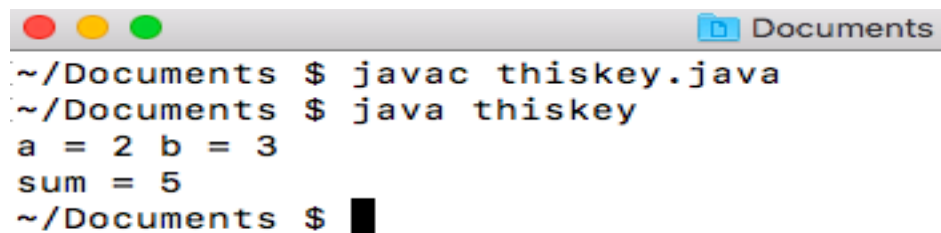
PROGRAM-

OBJECTIVE: Write a java program to demonstrate this keyword.

CODE:

```
class one{
    int a,b,sum;
    void setdata(int a,int b){
        this.a=a;
        this.b=b;
    }
    void adddata(){
        sum=a+b;
    }
    void dispdata(){
        System.out.println("a = "+a+" b = "+b);
        System.out.println("sum = "+sum);
    }
}
public class thiskey {
    public static void main(String[] args) {
        one obj=new one();
        obj.setdata(2, 3);
        obj.adddata();
        obj.dispdata();
    }
}
```

OUTPUT:

A screenshot of a terminal window with a title bar containing three colored circles (red, yellow, green) and a folder icon labeled 'Documents'. The terminal shows the following commands and output:

```
~/Documents $ javac thiskey.java
~/Documents $ java thiskey
a = 2 b = 3
sum = 5
~/Documents $
```

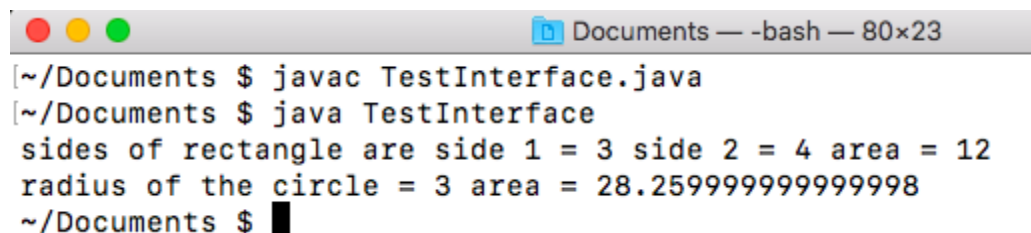
PROGRAM-

OBJECTIVE: Write a java package to show interfaces.

CODE:

```
interface areashape{
    void calarea();
}
class rectangle implements areashape{
    int a,b;
    void getsides(int a,int b){
        this.a=a;
        this.b=b;
    }
    @Override
    public void calarea(){
        int area=a*b;
        System.out.println("sides of rectangle are side 1 = "+a+" side 2 = "+b+" area = "+area);
    }
}
class circle implements areashape{
    int r;
    void getradius(int r){
        this.r=r;
    }
    @Override
    public void calarea() {
        double area= 3.14*r*r;
        System.out.println("radius of the circle = "+r+" area = "+area);
    }
}
class interface{
    public static void main(String args[]){
        rectangle obj=new rectangle();
        obj.getsides(3, 4);
        obj.calarea();
        circle obj1=new circle();
        obj1.getradius(3);
        obj1.calarea();
    }
}
```

OUTPUT:



```
[~/Documents $ javac TestInterface.java
~/Documents $ java TestInterface
sides of rectangle are side 1 = 3 side 2 = 4 area = 12
radius of the circle = 3 area = 28.259999999999998
~/Documents $
```