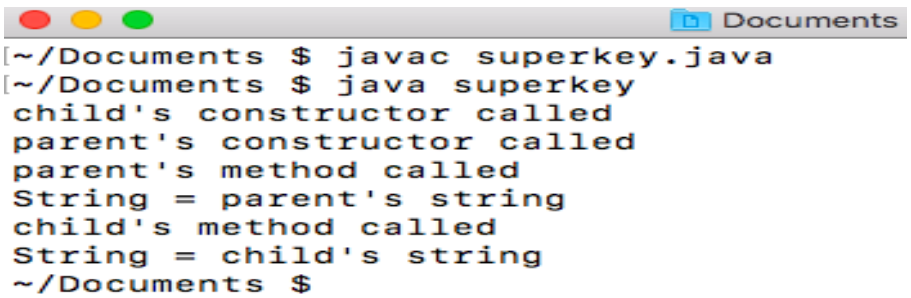
PROGRAM-

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:



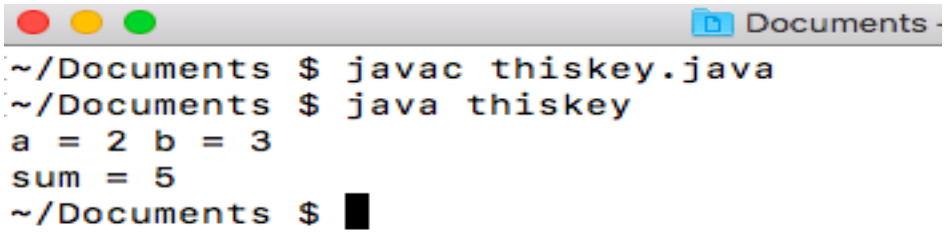
PROGRAM-

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:



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: