Multiple Catch Block

```java
public class MultipleCatchBlock {
    public static void main(String[] args) {
        try {
            int a[] = new int[5];
            System.out.println(a[10]);
        } catch (ArithmeticException e) {
            System.out.println("Arithmetic exception");
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("ArrayIndexOutOfBounds
exception");
        } catch (Exception e) {
            System.out.println("Parent exception");
        }
        System.out.println("rest of the code");
    }
}
```

Nested Try-Catch Block

```java
class Excep1 {
    public static void main(String args[]) {
        try {
            try {
                System.out.println("going to divide");
                int b = 39 / 0;
            } catch (ArithmeticException e) {
                System.out.println(e);
            }

            try {
                int a[] = new int[5];
                a[5] = 4;
            } catch (ArrayIndexOutOfBoundsException e) {
                System.out.println(e);
            }

            System.out.println("another statement");
        } catch (Exception e) {
            System.out.println("handeled");
        }

        System.out.println("normal flow..");
    }
}
```