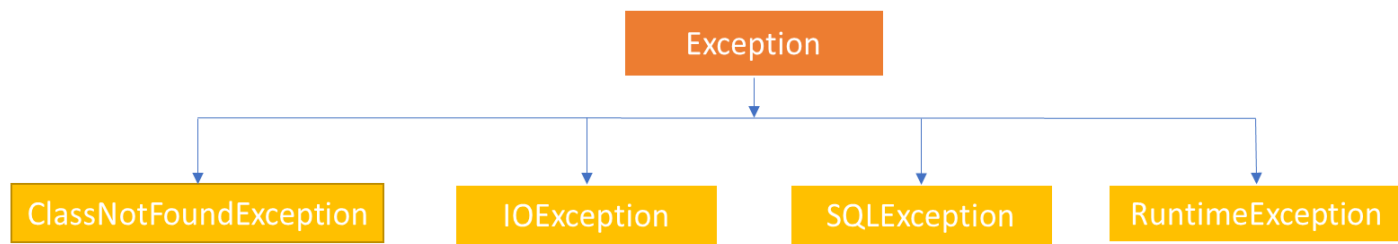


Java Concept 50



- Exception is a parent class
- ClassNotFoundException , IOException , SQLException and RuntimeException are child class

Overridden method **can** throw **child** class exception // **No Error**

```
1  class Parent
2  {
3      void method() throws Exception
4      { ... }
7  }
8  class Child extends Parent
9  {
10     void method() throws ArithmeticException
11     { ... }
14 }
```

Overridden method **can** throw **same** class Exception // **No Error**

```
1  class Parent
2  {
3      void method() throws ArithmeticException
4      { ... }
7  }
8  class Child extends Parent
9  {
10     void method() throws ArithmeticException
11     { ... }
14 }
```

Overridden method **can not** throw **parent** class Exception // **Error**

```
1  class Parent
2  {
3      void method() throws ArithmeticException
4      { ...}
5  }
6
7  class Child extends Parent
8  {
9      void method() throws Exception
10     { ...}
11
12 }
13
14 }
```

```

1 //Overriden method throwing Child
2 //class exception // No Error
3 class Parent
4 {
5     int value = 200;
6     void getValue() throws Exception
7     {
8         System.out.println("Parent : "+value);
9     }
10 }
11
12 class Child extends Parent
13 {
14     void getValue() throws ArithmeticException
15     {
16         System.out.println("Child : "+value);
17     }
18 }
19 public class JavaConcept
20 {
21     public static void main(String args[])
22     {
23         Child ch_obj = new Child();
24         ch_obj.getValue();
25     }
26 }

```

run:

Child : 200

BUILD SUCCESSFUL (total time: 0 seconds)

```

1 //Overriden method throwing Same
2 //class exception // No Error
3 class Parent
4 {
5     int value = 200;
6     void getValue() throws ArithmeticException
7     {
8         System.out.println("Parent : "+value);
9     }
10 }
11
12 class Child extends Parent
13 {
14     void getValue() throws ArithmeticException
15     {
16         System.out.println("Child : "+value);
17     }
18 }
19 public class JavaConcept
20 {
21     public static void main(String args[])
22     {
23         Child ch_obj = new Child();
24         ch_obj.getValue();
25     }
26 }

```

run:

Child : 200

BUILD SUCCESSFUL (total time: 0 seconds)

```

1 //Overriden method throwing Parent
2 //class exception //Error
3 class Parent
4 {
5     int value = 200;
6     void getValue() throws ArithmeticException
7     {
8         System.out.println("Parent : "+value);
9     }
10 }
11
12 class Child extends Parent
13 {
14     void getValue() throws Exception
15     {
16         System.out.println("Child : "+value);
17     }
18 }
19 public class JavaConcept
20 {
21     public static void main(String args[]) throws Exception
22     {
23         Child ch_obj = new Child();
24         ch_obj.getValue();
25     }
26 }

```

Error - getValue() in javaconcept.Child cannot override getValue() in javaconcept.Parent
overridden method does not throw java.lang.Exception