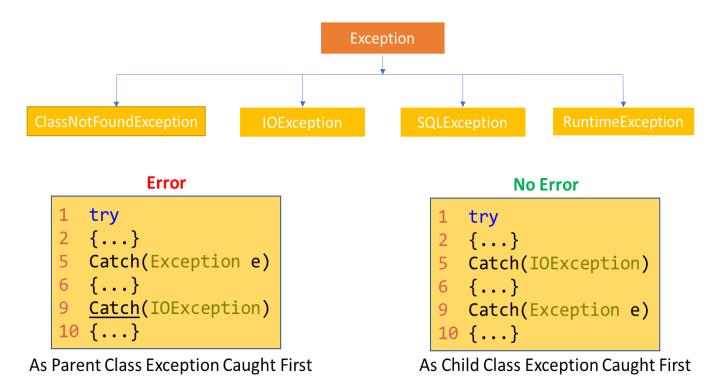
Java Concept 56

 In Try Catch block Child class exception must be caught first



```
//catching parent class exception first // Error
   class Parent extends Exception {}
   class Child extends Parent {}
   public class JavaConcept
5
       public static void main(String args[])
6
7
8
            try {
                System.out.println(C.P+"Inside "
9
                         + "try block"+C.RE);
10
11
                throw new Parent();
12
             }
13
14
            catch(Parent b)
                System.out.println(C.G+"Exception"
15
16
                  + " caught in Parent class"+C.RE);
17
             catch(Child d)
18
                System.out.println(C.R+"Caught"
19
                 + " derived class exception"+C.RE);
20
21
             }
         }
22
23 }
           Error - exception javaconcept. Child has already been caught
                        at javaconcept.JavaConcept.main
```

```
//catching child class exception first // No Error
   class Parent extends Exception {}
3
   class Child extends Parent
4
   public class JavaConcept
5
       public static void main(String args[])
6
7
         {
8
           try {
                System.out.println(C.P+"Inside"
9
                        + " try block"+C.RE);
10
11
                throw new Parent();
12
             }
13
             catch(Child d) {
                System.out.println(C.R+"Exception"
14
15
                   + " caught in Child class"+C.RE);
16
             }
17
           catch(Parent b)
                System.out.println(C.G+"Exception"
18
19
                   + " caught in Parent class"+C.RE);
20
            }
21
         }
22 }
run:
Inside try block
Exception caught in Parent class
```

```
//catching parent class exception first // Error
   // Child Class : ArrayIndexOutOfBoundsException
3
   // Parent Class : Exception
4
   public class JavaConcept
5
       public static void main(String args[])
6
7
           try {
8
9
                 char arr[] = {'a','b','c','d'};
10
                 for(int i=0;i<10;i++)</pre>
11
                    System.out.println("index : "
12
                       + i + " value : "+ arr[i]);
13
14
15
               }
           catch(Exception b)
16
17
               System.out.println(C.G+"Parent :"
18
                        + " Exception"+C.RE);
19
            }
20
           catch(ArrayIndexOutOfBoundsException d){
               System.out.println(C.R+"Child : "
21
                  + "ArrayIndexOutOfBoundsException"
22
23
                        +C.RE);
24
            }
25
26
         }
27 }
```

Error - exception java.lang.ArrayIndexOutOfBoundsException has already been caught at javaconcept.JavaConcept.main

```
//catching child class exception first // No Error
2
  // Child Class : ArrayIndexOutOfBoundsException
3
   // Parent Class : Exception
   public class JavaConcept
5
       public static void main(String args[])
6
7
         {
8
           try {
9
                 char arr[] = {'a','b','c','d'};
10
                 for(int i=0;i<10;i++)</pre>
11
12
                    System.out.println("index : "
                       + i + " value : "+ arr[i]);
13
                 }
14
15
               }
           catch(ArrayIndexOutOfBoundsException d){
16
17
                System.out.println(C.R+"Child : "
                 + "ArrayIndexOutOfBoundsException"
18
19
                         +C.RE);
20
           catch(Exception b)
21
                System.out.println(C.G+"Parent :"
22
23
                        + "Exception"+C.RE);
24
            }
         }
25
26 }
run:
index: 0 value: a
index: 1 value: b
index: 2 value: c
index: 3 value: d
Child: ArrayIndexOutOfBoundsException
```