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|     | public Son ( int fathurage, int ) sontage) throws |
|     | woon you Exception, son tys Exception (           |
|     | super (fathwage);                                 |
|     |   |
|     | if Cson Age >= faturage ?                         |
|     | Throw new SonAgeException ("Sois age cannot be    |
|     | greater than or to father straige );              |
|     | 3   |
|     | This. sond ge = Son Age W feeting on my world     |
|     | return sontage;                                   |
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|     | public day exception?                             |
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|     | Sout (" Enks son it eggs"); and which             |
|     | Ar SonAge = Sc. nexhlator; hitgo A                |
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|     | son son = new son (father Age, sontge);           |
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|     | (atch (wrong ty Exception e) {                    |
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|         |             | catch ( Son Age Exeption -6) & state -6  |
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|         |             | Enter Sons age 24  |
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```
import java.util.Scanner;
class WrongAgeException extends Exception {
    public WrongAgeException(String message) {
        super(message);
}
class Father {
   protected int fatherAge;
       public Father(int age) throws WrongAgeException {
        if (age < 0) {
            throw new WrongAgeException("Father's age cannot be negative.");
        this.fatherAge = age;
}
class Son extends Father {
    private int sonAge;
    public Son(int fatherAge, int sonAge) throws WrongAgeException {
              super(fatherAge);
        if (sonAge < 0) {
            throw new WrongAgeException("Son's age cannot be negative.");
        if (sonAge >= fatherAge) {
            throw new WrongAgeException("Son's age cannot be greater than or equal to Father's age.");
        this.sonAge = sonAge;
}
public class exception {
   public static void main(String[] args) {
       Scanner scanner = new Scanner(Syste
```

```
public class exception {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        try {
            System.out.print("Enter Father's age: ");
            int fatherAge = scanner.nextInt();
            System.out.print("Enter Son's age: ");
            int sonAge = scanner.nextInt();
            Son son = new Son(fatherAge, sonAge);
        } catch (WrongAgeException e) {
            System.err.println("Exception caught: " + e.getMessage());
        } catch (Exception e) {
            System.err.println("Invalid input. Please enter valid integers for ages.");
        } finally {
        }
    }
}
```

C:\Users\shett\OneDrive\Documents\javaclasslab>java exception Enter Father's age: -45 Enter Son's age: 4 Exception caught: Father's age cannot be negative. C:\Users\shett\OneDrive\Documents\javaclasslab>java exception Enter Father's age: 12 Enter Son's age: 24 Exception caught: Son's age cannot be greater than or equal to Father's age. C:\Users\shett\OneDrive\Documents\javaclasslab>java exception Enter Father's age: 34 Enter Son's age: -2 Exception caught: Son's age cannot be negative. C:\Users\shett\OneDrive\Documents\javaclasslab>java exception Enter Father's age: 22 Enter Son's age: 1 C:\Users\shett\OneDrive\Documents\javaclasslab>

C:\Users\shett\OneDrive\Documents\javaclasslab>javac exception.java