```
import java.util.Scanner;
class WrongAgeException extends Exception {
  public WrongAgeException(String message) {
    super(message);
  }
}
class SonAgeException extends Exception {
  public SonAgeException(String message) {
    super(message);
  }
}
class Father {
  private int age;
  public Father(int age) throws WrongAgeException {
    if (age < 0) {
      throw new WrongAgeException("Wrong age");
    }
    this.age = age;
  }
  public int getAge() {
    return age;
  }
}
class Son extends Father {
  private int sonAge;
```

```
public Son(int fatherAge, int sonAge) throws WrongAgeException, SonAgeException {
    super(fatherAge);
    if (sonAge >= fatherAge) {
      throw new SonAgeException("Son's age cannot be greater than or equal to father's age");
    }
    this.sonAge = sonAge;
  }
  public int getSonAge() {
    return sonAge;
  }
}
public class AppaMaga {
  public static void main(String[] args) {
    System.out.println("name: AARUSHA\n USN: 1BM23CS005");
    Scanner sc = new Scanner(System.in); // Scanner should be outside the loop to avoid creating
multiple instances
    while (true) {
      try {
        // Get Father's Age
        System.out.print("Enter Father's Age: ");
        int fatherAge = getValidAge(sc);
        // Get Son's Age
        System.out.print("Enter Son's Age: ");
        int sonAge = getValidAge(sc);
```

```
// Create the Son object
      Son son = new Son(fatherAge, sonAge);
      System.out.println("Accepted Successfully");
    } catch (WrongAgeException | SonAgeException e) {
      System.out.println(e.getMessage());
    }
    // Ask if the user wants to continue
    System.out.println("Would you like to re-enter details (Y/n)");
    String input = sc.next();
    if (input.equalsIgnoreCase("n")) {
      break;
    }
  }
  sc.close(); // Close the scanner outside the loop
}
// Helper method to get valid age input
private static int getValidAge(Scanner sc) {
  while (true) {
    if (sc.hasNextInt()) {
      int age = sc.nextInt();
      if (age >= 0) {
         return age;
      } else {
         System.out.print("Age must be a non-negative integer. Try again: ");
      }
    } else {
      sc.next(); // Clear the invalid input
```

```
System.out.print("Invalid input. Please enter a valid age: ");
}
}
}
```

Output:

```
name: AARUSHA
USN: 1BM23CS005
Enter Father's Age: 42
Enter Son's Age: 18
Accepted Succesfully
Would you like to re-enter details (Y/n)
y
Enter Father's Age: 55
Enter Son's Age: 58
Son's age cannot be greater than or equal to father's age
Would you like to re-enter details (Y/n)
n
```