```
package Oppgave5;
import static javax.swing.JOptionPane.*;
/*
Input: a and b integers (int), both integers must be positive,
since the calculation does not support negative numbers.
Result: the largest number that can be divided by a and b and produce an integer number.
*/
public class main {
    public static int eukildsAlgoritme (int a, int b) throws InvalidInputException{
        if(a < 0 \mid | b < 0){
            throw new InvalidInputException("Tallet kan ikke være negativt");
        }
       while( a != b ) {
        if (a > b) {
            a = a - b;
        } else {
        b = b - a;
   }
        assert (checkDivision(a,b));
        return a;
   }
   public static boolean checkDivision(int a, int b) {
        return a % b == 0;
    }
   public static void main(String [] args) throws InvalidInputException{
        String innstring1 = showInputDialog("Skriv inn et tall");
        String innstring2 = showInputDialog("Skriv inn et tall");
        try {
            int tall1 = Integer.parseInt(innstring1);
            int tall2 = Integer.parseInt(innstring2);
            showMessageDialog(null, eukildsAlgoritme(tall1, tall2));
        }
        catch (InvalidInputException e){
            showMessageDialog(null, e.getMessage());
        }
   }
```

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