

Prg16:



The screenshot shows the NetBeans IDE interface with the title bar "Prg16.java". The code editor displays Java code for a class named Prg16. The code prompts the user to enter two positive numbers, calculates their square roots, and determines if they are perfect squares. The output is printed to System.out.

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
 * see the license.
 */

package com.mycompany.prg16;

/*
 *
 * @author lBSCCSA59
 */
import java.util.*;
public class Prg16 {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter two positive numbers");
        int a = sc.nextInt();
        int b = sc.nextInt();
        if(a< 0 || b < 0){
            System.out.println("Square root of negative numbers cannot be determined");
        }else{
            double sqrtA = Math.sqrt(a);
            double sqrtB = Math.sqrt(b);
            double c = sqrtA - Math.floor(sqrtA);
            double d = sqrtB - Math.floor(sqrtB); if(c
            == 0 && d ==0){
                System.out.println("The numbers are perfect squares");
            }else if(c == 0 &&d != 0 ){
                System.out.println(a+" is a Perfect Square"+"\n"+b+" is not a Perfect square");

            }else if(c != 0 && d == 0 ){
                System.out.println(a+" is not a Perfect Square"+"\n"+b+" is a Perfect Square");

            }else if(c != 0 && d != 0 ){
                System.out.println("Both the numbers are not perfect squares ");
            }
        }
    }
}
```

Output:

```
└ --- exec:3.5.1:exec (default-cli) @ prgl6 ---
Enter two positive numbers
36
16
The numbers are perfect squares
```

```
-----  
BUILD SUCCESS  
-----
```

```
Total time: 24.971 s
Finished at: 2026-01-13T12:59:22+05:30
```