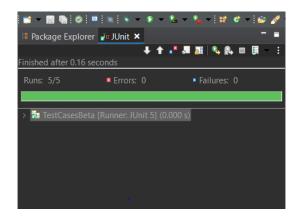
SOEN6011 Project: Problem-5

Function: B(x,y) 40197897-Pal Patel

1 Test Environment Details

- \bullet JRE Version 16.0.2
- JUnit Version 5
- IDE Eclipse



2 Test Cases

- 1. Test Case 1
 - Input to Gamma Function 4
 - \bullet Output expected- 5.836209591345864
 - Output received- 5.836209591345864
 - result:Pass
- 2. Test Case 2
 - Input to Square Root Function 289
 - Output expected- 17
 - Output received- 17
 - \bullet result:Pass
- 3. Test Case 3
 - \bullet Input to Power Function (2,3)
 - Output expected- 8
 - Output received- 8
 - result:Pass

4. Test Case 4

- Input to Factorial Function 5.0
- Output expected- 120
- Output received- 120
- result:Pass

Test case 5 Input to Gamma Function - -1.5 Output expected- Exception Output received- Exception result: Pass

5.2 Requirements Traceability

▶ Requirement 1,2

Test Cases: testgamma()

The testgamma functions accepted positive real numbers and computed the gamma values. If the numbers are not real and positive, the gamma gunctions exits the code.

2. Requirement 3,4,5

Test Cases: testgamma(), calculatepower(), factorial(),

These testcases correctly compute the subcalculations leading to the correct value for B(x,y).

3. Requirement 7

Test Cases: factorial()

The above test cases passes and conclusively has a positive output of the factorial input