|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_1 | A | Application | Triangle | **Start, input data, triangle don’t exist**  Preparation: select such values that the condition for the existence of a triangle is not satisfied.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “Triangle build exception”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_2.1 | C | Application | EquilateralTriangle | **Start, input data, integer data for creating equilateral triangle**  Preparation: select any positive integer.   1. Run the application. 2. Three times input prepared number to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Equilateral”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_2.2 | C | Application | EquilateralTriangle | **Start, input data, 1 real number data for creating equilateral triangle**  Preparation: select any positive real number.   1. Run the application. 2. Three times input prepared number to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Equilateral”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_2.3 | C | Application | EquilateralTriangle | **Start, input data, 2 real numbers data for creating equilateral triangle**  Preparation: select 2 any positive real numbers, the difference between them is less than 10e-6.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Equilateral”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_2.4 | C | Application | EquilateralTriangle | **Start, input data, 3 real numbers data for creating equilateral triangle**  Preparation: select 3 any positive real numbers, the pairwise difference between them is less than 10e-6.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Equilateral”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_3.1 | C | Application | IsoscelesTriangle | **Start, input data, integer numbers data for creating isosceles triangle**  Preparation: select 2 any different positive integer numbers.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Isosceles”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_3.2 | C | Application | IsoscelesTriangle | **Start, input data, real numbers data for creating isosceles triangle**  Preparation: select 2 any positive real numbers, the difference between them is more than 10e-6.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Isosceles”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_4.1 | C | Application | UsualTriangle | **Start, input data, integer numbers data for creating usual triangle**  Preparation: select 3 any different positive integer numbers.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Usual”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_4.2 | C | Application | UsualTriangle | **Start, input data, real numbers data for creating usual triangle**  Preparation: select 3 any positive real numbers, the pairwise difference between them is more than 10e-6.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “This triangle is Usual”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_5 | B | Application | Inputer | **Start, input data, “0” as value**   1. Run the application. 2. Input “0” to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “Bad value. Try again” and will wait for new input. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_6 | B | Application | Inputer | **Start, input data, negative value**   1. Run the application. 2. Input any negative value to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “Bad value. Try again” and will wait for new input. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_7 | B | Application | Inputer | **Start, input data, invalid characters**   1. Run the application. 2. Input invalid characters as value to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “Bad value. Try again” and will wait for new input. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_8.1 | B | Application | Triangle | **Start, input data, 1 value leading to overflows**  Preparation: select 1 any number, the value of which can lead to overflow, and 2 valid numbers.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “Triangle build exception”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_8.2 | B | Application | Triangle | **Start, input data, 2 value leading to overflows**  Preparation: select 2 any numbers, the values of which can lead to overflow, and 1 valid number.   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “Triangle build exception”. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC\_8.3 | B | Application | Triangle | **Start, input data, 3 value leading to overflows**  Preparation: select 3 any numbers, the values of which can lead to overflow   1. Run the application. 2. Input prepared numbers to the console by enter. | 1. Console with note “Enter values of sides:” will appear. 2. Program writes to console “Triangle build exception”. |