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

Functional Requirements for B(x,y):

Requirement 1

- **ID =** R1
- **Version =** 1.0
- **Difficulty =** Easy
- **Description =** 2 variables, x and y are required for the function to be performed.
- **Rationalle =** x and y

Requirement 2

- **ID =** R2
- **Version =** 1.0
- **Difficulty =** Easy
- **Description =** The variables x and y must be real positive numbers, meaning x,y $\in$ R+ (Domain of the function)
- **Rationalle =** $x > 0$, $y > 0$, and x,y $\in$ R+

Requirement 3

- **ID =** R3
- **Version =** 1.0
- **Difficulty =** Easy
- **Description =** The results after applying the function to x and y must also be real positive numbers. (Co-Domain of the function)
- **Rationalle =** B(x,y)>0

Requirement 4

- **ID =** R4
- **Version =** 1.0
- **Difficulty =** Easy
- **Description =** The range of positive real variables is to remain between 0 and 1 for the integral form of the function.
- **Rationalle =** $x, y \in (0, 1]$

Requirement 5

- **ID =** R5
- **Version =** 1.0
- **Difficulty =** Easy
- **Description =** The function must have no other inputs than x,y.
- **Rationalle =** x,y $\in$ R+

Requirement 6

- **ID =** R6
- **Version =** 1.0
- **Difficulty =** Easy
- **Description =** The input variables may or may not have distinct values
- **Rationalle =** x=y OR x