

**North South University**

**Department of Electrical & Computer Engineering**

**assignment**

**CSE 427**

Section : 1

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1. List all the input variables, including the state variables

* S1
* S2
* S3
* SCALENE
* ISOSCELES
* EQUILATERAL
* INVALID

1. Define Characteristics of the Input Variable. Make sure you cover all input variables.

S1, S2 and S3 are the sides of the triangles.

In SCALENE triangle, all 3 sides are different as they are not equal. (S1!=S2 && S2!=S3 && S1!=S3)

In ISOSCELES triangle, out of 3 sides, 2 sides are equal in value and the 3rd side is different in value. (S1==S2 && S1!=S3 || S1==S3 && S3!=S2 || S2==S3 && S1!=S2)

In EQUILATERAL triangle, all 3 sides are equal in value. (S1==S2 && S2==S3)

Invalid is when it is not valid.

1. Define Characteristics of Inputs.

Inputs will be given in integer value. The