**GALGOTIAS UNIVERSITY**

**SCHOOL OF COMPUTING SCIENCE AND ENGINEERING**

**Software Testing & Quality Assurance**

**Course Code: E2UC502T Max. Marks : 15 (7.5 marks each)**

**Target Group: Section 6 and 15 only Faculty Name: Ravinder Beniwal**

**IA2 Assignment Questions**

1. Consider a program for the determination of the nature of roots of a quadratic equation. Its input is a triple of positive integers (say a,b,c) and values may be from interval [0,100]. The program output may have one of the following words.

[Not a quadratic equation; Real roots; Imaginary roots; Equal roots]

1. Design the boundary value test cases.
2. Execute the test cases and prepare a test report for the program.
3. Write the program for the case of a triangle wherein the program reads the three sides of a triangle (say a, b, c). The output may be scalene triangle or an Isosceles triangle or an equilateral triangle or might not be a triangle at all.ng.
   1. Determine the independent paths and find the Cyclomatic Complexity.
   2. Draw the program flow graph.
   3. Draw the DD path graph.

**Points to Remember:**

* **Students should only submit handwritten reports (hard copies) in A4 size sheets(1st page having Assignment No. 2, Student Name, Enrollment no, Section, through your Class Representatives only.**
* **Don't copy from others; if caught, both will receive a zero.**
* **Students are expected to submit their work by January 14th, 2024. Late submissions will not be reviewed, and you will receive zero points.**

**Assignment Date:**

**Given Date : 09/01/2024**

**Due Date : 14/01/2024**