**National University of Computer & Emerging Sciences, Karachi** **Fall-2022 (School of Computing)   
Quiz-03**

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| **Course Code:** **SE:3002** | **Course Name:** Software Quality Engineering | |
| **Instructor:** Romasha Khurshid | | |
| **Student ID:** | | **Section:** 5A |
| **Date:** November 23, 2022 | | **Time:** (45 Minutes) |

**Instructions:**

* Attempt all questions.
* Return the paper after the quiz.

**Max Points**: 10

1. Consider the program.

main()

{

0. int number, index;

1. printf(“Enter a number”);

2. scanf(“%d, &number);

3. index = 2;

4. while(index <= number – 1)

5. {

6. if (number % index == 0)

7. {

8. printf(“Not a prime number”);

9. break;

10. }

11. index++;

12. }

13. if(index == number)

14. printf(“Prime number”);

15. } //end main

1. Draw the Data flow graph of variables ‘number’ and ‘index’ for the program. (4 marks)
2. Derive all du-paths using data flow testing. (4 marks)
3. Use the guidelines of slicing and create exactly two slices of the above code. (2 marks)

**The End**