**Programming Fundamentals**



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| Class | BCE- 2A |
| Instructor’s Name | Dr. Omar Ahmed |

***Lab # 02***

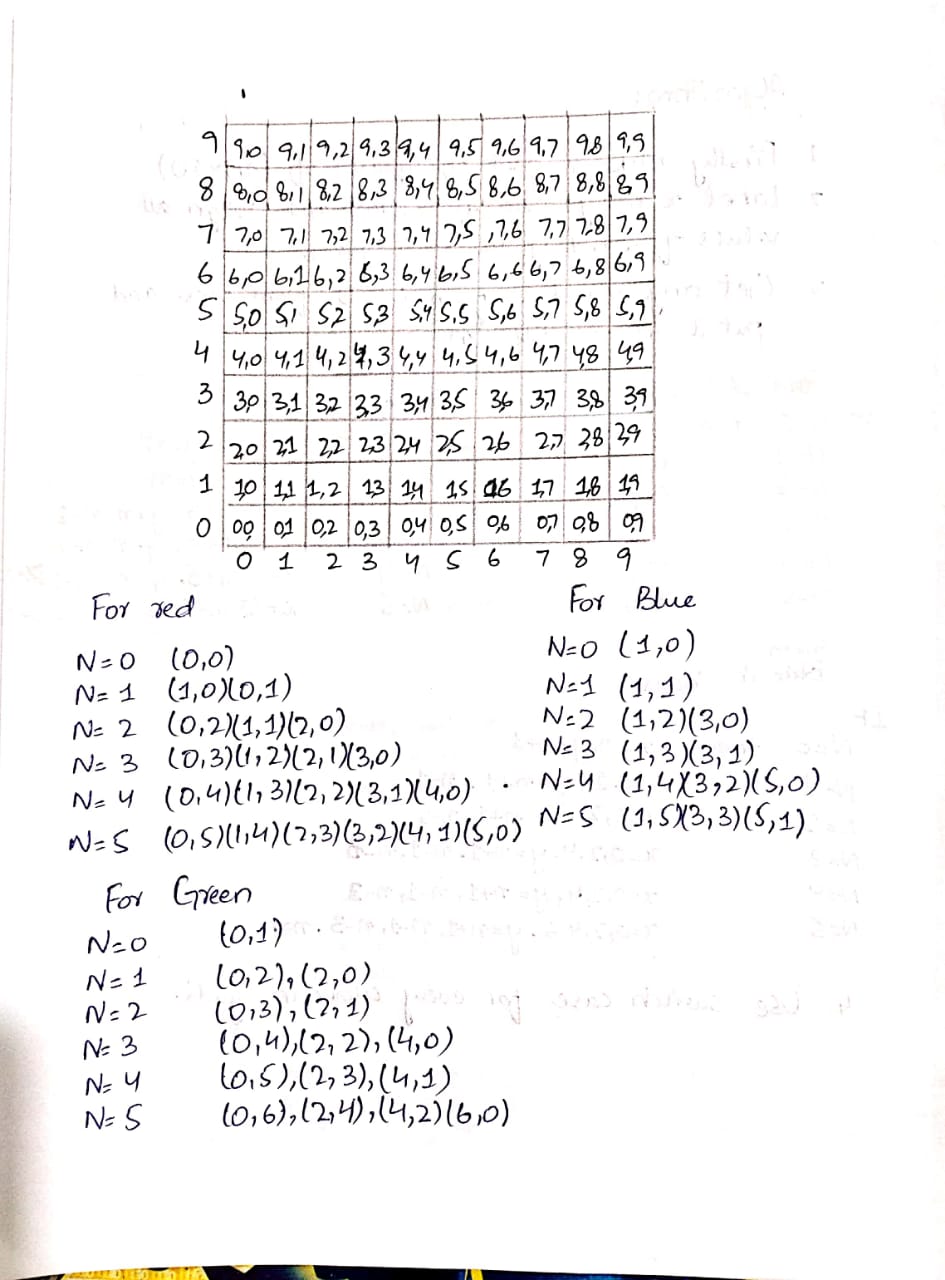
***Basic Steps for Algorithm Development and Piece-Wise Functions using if/else Statement***

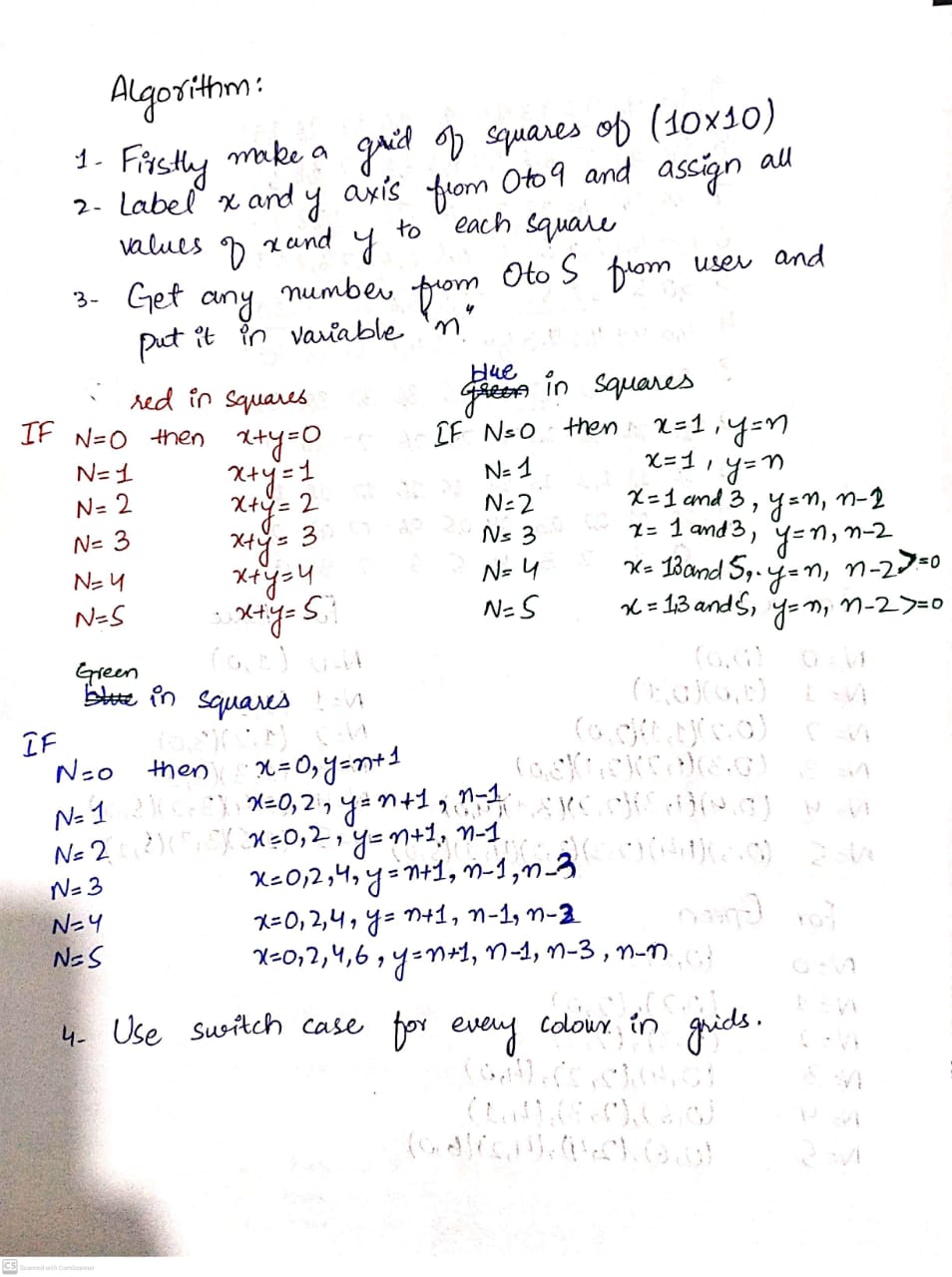
**In Lab:**

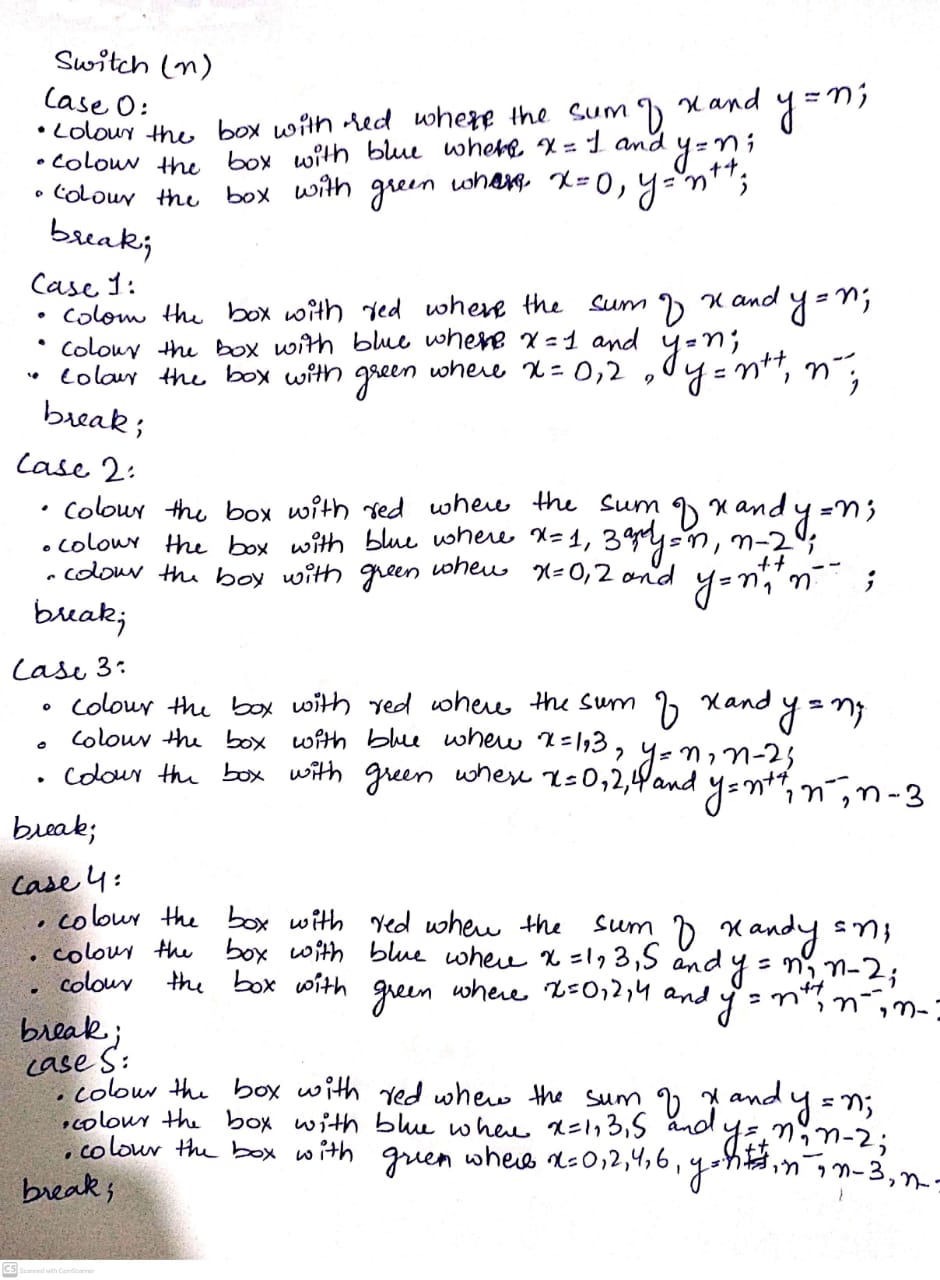
**Task 1:** Develop an Algorithm.

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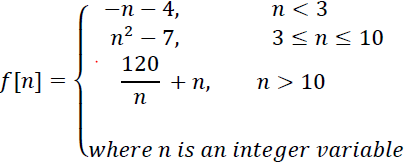
**Algorithm:**



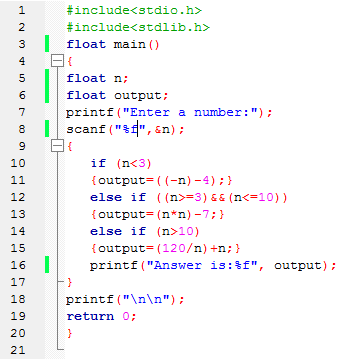




**Task 2:** Write a C Program to Implement a Piecewise Function.

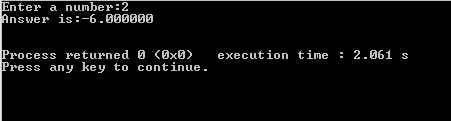


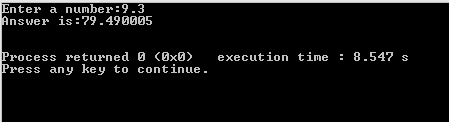
**Program:**

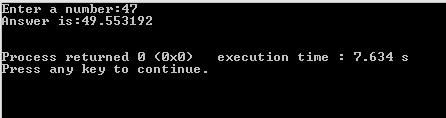


* Some answers of 3rd piece wise are in decimal value, so we use floating format specifiers and escape sequences.

**Outputs:**



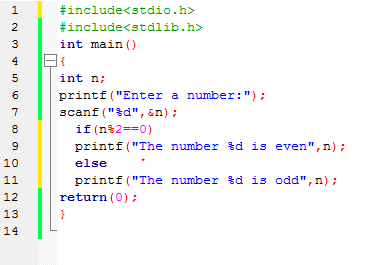




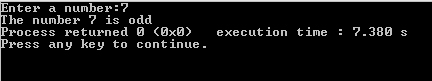
**Post Lab Task:**

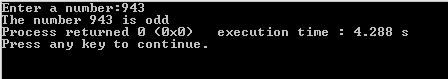
Write a program that takes integer input from user and tells (displays on the output console screen) whether it is even or odd.

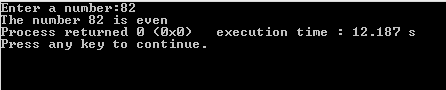
**Program code:**



**Output:**







***Critical Analysis:***

* We learn the functioning of if/else statement.
* We understand the working of 4 step process of algorithm development.
* We learn to generate logic of different patterns or grids.