**BSCS – V- SOFTWARE ENG EXTREME PROGRAMING LAB**

**Department of Computer Science & Engineering Air University Multan Campus**

Time: 01 hour

**Developing Factorial Application Using Test Driven Development**

Note Use Pair Programming Approach to practice this lab.

Systematic Approach

#### Requirements

1. Factorial calculates the multiplication of the all positive numbers less than or equal Target Number(n).
2. Target Number(n) is a non-negative integer.

#### Unit Tests to be created

1. Zero factorial is One 0! = 1
2. One factorial is One 1! = 1\*0! = 1
3. Two factorial is Two 2! = 2\*1! = 2
4. Three factorial is Six 3! = 3\*2! = 6

Steps:

**Write Stubs as followings:**

***Zerofactoriaisone()***

***onefactoriaisone()***

***twofactoriaistwo ()***

***threefactoriaissix()***

***fivefactorialisonetwenty()***

#### Code your Factorial Calculation Application at the end.