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**LAB#06**

**APPLIED PHYSICS LAB**

**Submitted to :Mr.Muhammad Shoaib**

**Submitted by: Group Of**

**Laraib Ijaz (2021-BSE-036)**

**Fizza Khan (2021-BSE-012)**

**Tanzeela Asgher(2021-BSE-032)**

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**TOPIC: Kirchhoff’s Current Law(KCL)**

**Task:**

**1. Calculating current across each resistance using Kirchhoff’s current Law**

**2. Find total numbers of loops and equations for KCL**

Diagram, schematic

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**Node A:**

**I - I 1 - I 2 - I 3 = 0**

Diagram

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**Node B:**

**I 1 - I 4 - I 5 = 0**

Diagram

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**Node** **C :**

**I 3+ I 5 – I 6 = 0**

Diagram, schematic

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**Node D:**

**I 4 + I 6 – I 7 = 0**

**Diagram, schematic

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**Node E:**

**I 2 + I 7 – I 8 = 0**

**Diagram, schematic

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**Node F (voltage source):**

**I 8 – I = 0**

**Diagram, schematic

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