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**LAB#05**

**APPLIED PHYSICS LAB**

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**TOPIC: Kirchhoff’s Voltage Law(KVL)**

**Task.**

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

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

Diagram, schematic

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**Loop ABCDA:**

Diagram

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**V DA + V AB + V BC + V CD = 0**

**Loop AEFGA**:

Diagram, schematic

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**V AE + V EF + V FG + V GA = 0**

**Loop AIKDA:**

Diagram, schematic

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**V AI + V IK + V KD + V DA = 0**

**Loop IGHKI:**

Diagram

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**V IG + V GH + V HK + V KI = 0**

**Loop AGHDA:**

Diagram, schematic

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**V AG + V GH + V HD + V DA = 0**

**Loop EFHDE:**

Diagram, schematic

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**V EF + V FH + V HD + V DE = 0**

**Loop AEFHCBA:**

**V AE + V EF + V FH + V HC + V CB + V BA = 0**