

# Volume-1

## 4.6. LABORATORY REPORT

### Part-3: Kirchhoff's Law

1. Report the values of the current  $I_{AC}$  and voltage  $V_{BC}$  for both measured and calculated values.
2. Compare the measured and calculated values of the current  $I_{AC}$  and voltage  $V_{BC}$ .

Resistances	By Color Codes
$R_1$	Brown-Black-Red-Gold
$R_2$	Brown-Black-Red-Gold
$R_3$	Brown-Black-Red-Gold

Table-8: Data values of the current  $I_{AC}$  and voltage  $V_{BC}$  in the circuit.

Voltage Source	Measured		By Color Codes	By Kirchhoff's Rule	
				Calculated	
$V_{OUT}(V)$	$V_{BC}(V)$	$I_{AC}(A)$	$R_1, R_2, R_3$	$V_{BC}(V)$	$I_{AC}(A)$
10	3.38	$6.87 \times 10^{-3}$			