

29/6/2020  
MONDAY

## PHYSICS

STD - 8  
class - 06

### Assignment

- 1) 2  $\Omega$  and 4  $\Omega$  resistors are connected in parallel. 12 V potential difference is applied. Find the current in the circuit.

Ans)

$$V = 12 \text{ V}$$

$$R_1 = 2 \Omega$$

$$R_2 = 4 \Omega$$

$$\therefore \frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$\frac{1}{R} = \frac{1}{2} + \frac{1}{4}$$

$$\frac{1}{R} = \frac{2}{6}$$

$$R = \frac{6}{2} = 3 \Omega$$

$$R = \underline{\underline{3 \Omega}}$$

$$\therefore I = \frac{V}{R}$$

$$= \frac{12}{3}$$

$$I = \underline{\underline{4 \text{ A}}}$$

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