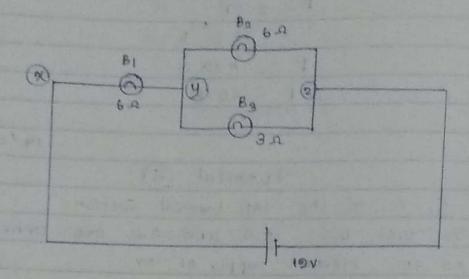
(DO) R= 52 IspA Pop  $P = 1^{2}R$ = (2)<sup>2</sup> 5 P = HX5 P = 20 W 14/06/2023 Tutorfal (6) Question (1) is in the SAD turosial Section. 1) Three resistors 62, 122, and 42 are connected in series to an electric supply of 12v. (c) Calculate the total resistance of these three resistors. 21 RT = 6+ 12+4 = 222// (ir) What is the current gain from the electric supply? V= IR  $I = V = 12^{\circ} = 6 A = 0.55 A$ The state of the same

(B) Three bulbs is, B; B; B; are connected to 121 supply as shown in the following diagram.



O falculate the total resistance of the two bulbs By and By (between yand 2)

Be and By are parallely connected to eachother

L = L + L = B

$$\frac{1}{R\tau} = \frac{1}{R_2} + \frac{1}{R_3} = \frac{1}{6} + \frac{1}{3} = \frac{3}{6} = \frac{3}{6}$$

What is the to-tal resistance between the two points and 2.

What is the current garned from the electricity supply? V= IR

$$f = \frac{V}{R} = \frac{12}{8} = \frac{6}{4} = \frac{9}{9} = 1.5$$

$$f = 1.5A$$

(iv) (alcalate the potential difference between aandy. P=VI PITER = (1.5) 2 × 6 P= 13.5 W (V) Calculate the potential difference between Yand 2. P=VP = P 2 R = 9 × 2 115.0 P = 4.5 W (a) Calculate the current flow through 82.2 Bg 15 x 2 = 1 x 2 = 1 A 1.5 x1 = 1 = 0.5 A 2 B2 = 1. A/ 162 = 015A/ 24 8 g its removed, then what would be the current garn from the electric supply. 2= V = 19 = 1A/

If bit a new y no of function 1 = n2 it will allow. consider , 4 bit opcode ... n = "A n = 16 4 bit opcode will allow 16 different functions. Turomal (1) Quick Review Question (1) Consider a computer that is used for simple numerical problems it uses q bits for an opende and 25 bics for a memory address. a) What is the size of its instruction? 39 bits Instruction size = opcode + memory address. = 9 bits + 25 bits = 30 bits b) How many different instructions can it have? 99 = 512 bitt. When the more memory size that come Arme that 2 20' is about (M).