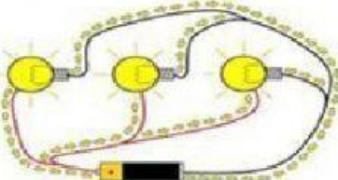
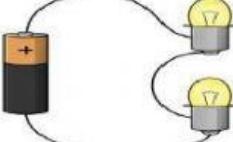
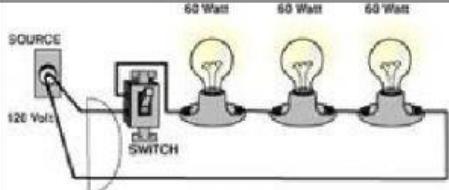
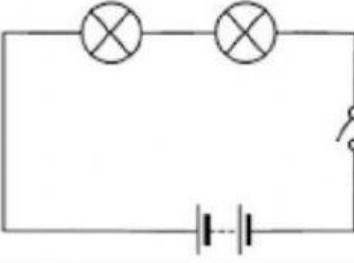


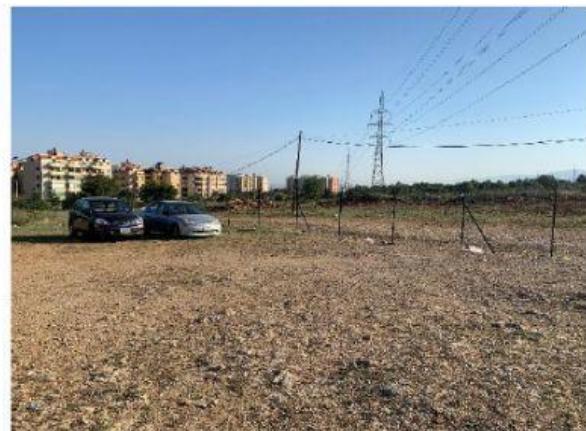
Name: \_\_\_\_\_

**Exercise 1:** Classify the following circuits as parallel or series circuits

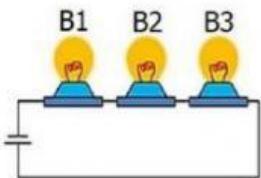
	Parallel		Series
	Parallel		Series
Parallel	Series	Parallel	Series

**Exercise 2:** Which type of circuits is better to use light schools, buildings, parking such as Al-Bayader Parking, and streets at night?

- It is better to use parallel circuits since if one bulb burns out the other bulbs won't be affected and as you add bulbs they will be dimmer.
- It is better to use parallel circuits since if one bulb burns out the other bulbs won't be affected and as you add bulbs the brightness won't be affected.
- It is better to use series circuits since it is easier to connect them on one row in less time and at a low cost.



**Exercise 3:** Use the figure below to answer the questions that follow:



1. If bulb 2 was broken, what will happen to the other bulbs?

- a. The other bulbs will light since there is more than one pathway for current.
- b. The other bulbs will not light since there is only one pathway for current.
- c. Bulb 1 will light while bulb 3 will not.

2. If another bulb, B4, was added to the circuit, what happens to the brightness of the other bulbs?

- a. The brightness of each bulb will not be affected.
- b. All bulbs will become dimmer.
- c. All bulbs will burn.