

## Question 1 Planets (25 pts)

You are starting work on a solar system React based App. The layout and styling has been done for you. You are provided with the following files:

- An `index.html`. **This cannot be modified.**
- A `index.js` file containing the main React App. **This cannot be modified.**
- A `question1.css` CSS file that contains all the CSS for the site. **This cannot be modified.**
- A `planets.json` file which contains information about major and minor planets in the solar system. This **cannot** be modified or imported into your components.

You will deliver to me **two** files. One for each React component you are asked to create.

These files must implement the functionality described below.

### (a) Create Files and Empty Functional Components (5 pts)

Get your *Parcel.js* build working by:

- Creating the Javascript files mentioned above
- Creating the appropriately name React *functional* components in those files.
- Exporting those components in the appropriate way so that the `index.js` file can import them.

At this point you should have a clean build as shown in the screen shot below.

```
Spring2020/PracticeArea
$ parcel index.html
Server running at http://localhost:1234
✓ Built in 1.40s.
```

### (b) PlanetsMoons Functionality (15 pts)

You will now give the *PlanetsMoons* component the following functionality:

- It returns a `<section>` element containing the following
- A heading of some type with content: “Planets with Moons”
- An unordered list of planets with count of their moons. These planets must have at least one moon to be in the list.

- Sorted in decreasing order from the planet with the most moons down to planets with only one moon.
- The information should look like the top half of the screen shot below. No extra styling is allowed.

## The Solar System

### Planets with Moons

- Jupiter has 63 moons
- Saturn has 61 moons
- Uranus has 27 moons
- Neptune has 13 moons
- Pluto has 5 moons
- Mars has 2 moons
- Haumea has 2 moons
- Earth has 1 moons
- Eris has 1 moons

### Planets without Moons (4)

- Mercury
- Venus

### (c) PlanetsNoMoons Functionality (5 pts)

You will now give the *PlanetsNoMoons* component the following functionality:

- It returns a `<section>` element with the *CSS* class `NoMoons` containing the following:
- A heading with a summary of the **number** of planets without moons, like in the screenshot
- An unordered list of planets without moons
- The information should look like the bottom half of the screenshot above. No extra styling is allowed.