```
In [1]: # import dependencies
from splinter import Browser
from bs4 import BeautifulSoup as bs
import pandas as pd
import time
```

# Step 1 - Scraping

#### **NASA Mars News**

```
In [2]: # Set the chrome driver
    executable_path = {"executable_path": "d:/chrome_driver/chromedriver.exe"}

In [3]: # Open the NASA's Mars news page on Ohrome
    browser = Browser("chrome", **executable_path, headless=False)
    url = "https://mars.nasa.gov/news/"
    browser.visit(url)
    time.sleep(1)

In [4]: # Read html from the page
    html = browser.html
    soup = bs(html, "html.parser")

In [5]: # Sorape the very first news title and paragraph text
    news_title = soup.find_all("div", class_="content_title")[1].text
    news_D = soup.find("div", class_="article_teaser_body").text

    print("Title: ", news_title)
    print("Paragraph" ", news_D)

Title: NASA Engineers Checking InSight's Weather Sensors
```

# JPL Mars Space Images - Featured Image

```
In [6]: # Open the JPL page on Chrome
url = "https://www.jpl.nasa.gov/spaceimages/?search=&category=Mars"
browser.visit(url)
```

Paragraph: An electronics issue is suspected to be preventing the sensors from sharing their data about Mars weather with the spacecraft.

```
In [7]: # Move to the page having the full size image
browser.links.find_by_partial_text("FULL IMAGE").first.click()
browser.links.find_by_partial_text("more info").first.click()
browser.find_by_text("Full-Res JPG: ").first.find_by_tag("a").first.click()
```

```
In [8]: # Scrape the image ur!
featured_image_ur! = browser.find_by_tag("img").first["src"]
print(featured_image_ur!)
```

https://photojournal.jpl.nasa.gov/jpeg/PIA20318.jpg

## **Mars Facts**

```
In [9]: # Scrape the tables from https://space-facts.com/mars/
url = "https://space-facts.com/mars/"
tables = pd.read_html(url)
```

```
In [10]: html_tables = []
                 # Convert all the tables to html, and save them to a list
                 for table in tables:
                        html_tables.append(table.to_html(justify="left").replace("\text{\pm}", ""))
                 print(html tables)
                 [' <thead> 
                                                                                                                                                                        0 1 
                                                                                                                                                             6,792 km 
                 </thead>   O Equatorial Diameter:
                                                                                                                                                                                                                                     1
                 Polar Diameter:
                                                                     6,752 km 
                                                                                                                                          2
                                                                                                                                                                     Mass:
                                                                                                                                                                                                          6.39 × 10^23 kg (0.11 Earth
                                                                  2 (Phobos & Deimos)  
                 s)
                                                                                                                                                                                                                                        4
                                                                                                                                                                                                  Orbit Distance:
                | Star |
```

8 Recorded By: Egyptian astronomers

### Mars Hemispheres

ium BC

img\_url: https://astropedia.astrogeology.usgs.gov/download/Mars/Viking/cerberus\_enhanced.tif/full.jpg
Title: Schiaparelli Hemisphere
img\_url: https://astropedia.astrogeology.usgs.gov/download/Mars/Viking/schiaparelli\_enhanced.tif/full.jpg
Title: Syrtis Major Hemisphere
img\_url: https://astropedia.astrogeology.usgs.gov/download/Mars/Viking/syrtis\_major\_enhanced.tif/full.jpg
Title: Valles Marineris Hemisphere
img\_url: https://astropedia.astrogeology.usgs.gov/download/Mars/Viking/valles\_marineris\_enhanced.tif/full.jpg