ShopGrok Python Exercises

Create a new public git repository and answer the following questions.

- 1. Create a python environment with the following installations. Please share the commands used to set-up the environment.
 - a. scrapy==2.4
 - b. shub
 - c. scrapy-crawlera
 - d. google-cloud-storage
 - e. scrapy-sessions
- 2. Write a basic python scrapy crawler using <u>scrapy library</u> for <u>https://tackleworldadelaide.com.au/</u> that:
 - a. <u>Navigates</u> through the top level-menu (ie Reels, Rods, etc) and <u>loops</u> through the submenu items within (ie Spinning Reels, Baitcast Reels, etc). This should be completed using xpaths
 - b. Visits the category page and **loops** through each product tile on the page
 - c. Yields an item for each product with the following fields:
 - i. Sku_name
 - ii. Image url
 - iii. Price now
 - iv. Price_was
 - v. Product_url
- 3. Write a basic python scrapy crawler using <u>scrapy library</u> that visits https://www.surfboardempire.com.au/products.json?page=1 and:
 - a. **Loads** each product using the response JSON data
 - b. **Yields** an item for each product with the following fields:
 - i. Sku name
 - ii. Product id
 - iii. Brand
 - iv. Product_url
 - c. Loops through each page until all products have been found
- 4. Write the python code that uses <u>regular expressions</u> to extract the numerical total number of products (ie 101) from the raw text below