```
# -*- coding: utf-8 -*-
"""Alaiba_Nawaz_Day3.ipynb

Automatically generated by Colaboratory.

Original file is located at

https://colab.research.google.com/drive/10dqs5Z2GcqHytVHnGDFjj5VdIrEyO-hV
"""

import requests #to get the GET element
from bs4 import BeautifulSoup #to parse through html document
import pandas as pd

"""Task1"""

# Send a GET request to the webpage in order to get response
url =
"https://www.daftlogic.com/information-appliance-power-consumption.htm"
headers = {'User-Agent': 'Mozilla/5.0'} # help to avoid blocking or
redirection by the server.
response = requests.get(url, headers=headers)
content = response.content

# Extract the title of the webpage
soup = BeautifulSoup(content, 'html.parser')
title = soup.title.string

# Find the table
table = soup.find('table', id="tblApp")

# Convert the table to a DataFrame using pandas
df = pd.read_html(str(table))[0]

# Save the DataFrame to a CSV file
df.to_csv("powercomsumption.csv", index=False)

"""Task2"""

data = pd.read_csv("/content/Iris.csv")
```

```
data.info()

data.groupby("Species").agg({"SepalLengthCm": "mean"})

correlation = data['SepalLengthCm'].corr(data['PetalLengthCm'])
correlation
#0.871 shows that there is strong coorelation between these two features

maxPetalLength = data.PetalLengthCm.max()
max = data.groupby("Species")["PetalLengthCm"].max()
max

max.sort_values(ascending=False).index[0]
```