```
In [10]:
       from urllib.request import Request, urlopen
        from bs4 import BeautifulSoup
        import pandas as pd
        url = "https://www.daftlogic.com/information-appliance-power-consumption.htm"
        url
Out[10]: 'https://www.daftlogic.com/information-appliance-power-consumption.htm'
In [14]:
        headers={'User-Agent': 'Mozilla/5.0'}
In [15]: req=Request(url=url, headers=headers)
        page=urlopen(req).read()
In [16]: | soup = BeautifulSoup(page, 'html.parser')
In [17]: table = soup.find('table', id="tblApp")
        table
        Tea style- font weight. Dola, sta name- tablet charge stylasta search-
        let Charger" type="amzn">Tablet Charger</a>
        10W
        15W
        N/A
        <
        <
        <a name="tablet computer"></a><a search="Ta
        blet Computer" type="amzn">Tablet Computer</a>
        5W
        10W
        N/A
        <
        [<a href="https://discussions.apple.com/thread/4049197?tstart=0" targe
        t="_blank">1</a>]
        In [18]: | df = pd.read html(str(table))[0]
```

In [19]: df.head()

Out[19]:

	Appliance	Minimum	Maximum	Standby	Other Name(s)	References	Notes
0	100W light bulb (Incandescent)	100W	100W	0W	NaN	[1]	NaN
1	22 Inch LED TV	17W	17W	0.5W	NaN	NaN	NaN
2	25" colour TV	150W	150W	NaN	NaN	NaN	NaN
3	3" belt sander	1000W	1000W	NaN	NaN	NaN	NaN
4	32 Inch LED TV	20W	60W	1W	NaN	NaN	NaN

In [31]: df.to_csv("POWER_Consumption.csv")

In [21]: df

Out[21]:

	Appliance	Minimum	Maximum	Standby	Other Name(s)	References	Notes
0	100W light bulb (Incandescent)	100W	100W	0W	NaN	[1]	NaN
1	22 Inch LED TV	17W	17W	0.5W	NaN	NaN	NaN
2	25" colour TV	150W	150W	NaN	NaN	NaN	NaN
3	3" belt sander	1000W	1000W	NaN	NaN	NaN	NaN
4	32 Inch LED TV	20W	60W	1W	NaN	NaN	NaN
150	WiFi Booster	1W	2W	NaN	WiFi Repeater,WiFi Extender,Range Extender	NaN	NaN
151	WiFi Router	4W	10W	4W	Router	NaN	NaN
152	Window Air Conditioner	500W	1500W	NaN	Window AC	NaN	NaN
153	Wine cooler (18 bottles)	83W	83W	0W	NaN	[1]	NaN
154	Xbox One	50W	110W	14W	NaN	NaN	NaN

155 rows × 7 columns

Task 2

Out[24]:

	ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

In [26]: df.describe()

Out[26]:

	ld	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	75.500000	5.843333	3.054000	3.758667	1.198667
std	43.445368	0.828066	0.433594	1.764420	0.763161
min	1.000000	4.300000	2.000000	1.000000	0.100000
25%	38.250000	5.100000	2.800000	1.600000	0.300000
50%	75.500000	5.800000	3.000000	4.350000	1.300000
75%	112.750000	6.400000	3.300000	5.100000	1.800000
max	150.000000	7.900000	4.400000	6.900000	2.500000

```
In [25]: df.groupby('Species').SepalLengthCm.mean()
```

Out[25]: Species

Iris-setosa 5.006
Iris-versicolor 5.936
Iris-virginica 6.588

Name: SepalLengthCm, dtype: float64

```
In [27]: df.corr().loc['SepalLengthCm', 'PetalLengthCm']
```

Out[27]: 0.8717541573048716

```
In [30]: max_petal = df['PetalLengthCm'].max()
    max_petal_spec = df.loc[df['PetalLengthCm'].idxmax(), 'Species']
    print(max_petal_spec)
```

Iris-virginica

In []: