

Question 5 - Write a program to download the data from the given API link and then extract the following data with proper formatting

Link - <http://api.tvmaze.com/singlesearch/shows?q=westworld&embed=episodes>

Note - Write proper code comments wherever needed for the code understanding

Expected Output Data Attributes -

- id - int url - string
- name - string season
- - int number - int
- type - string airdates -
- date format airtimes -
- 12-hour time format
- runtime - float
- average rating - float
- summary - string
- without html tags
- medium image link - string
- Original image link - string

Ans:

```
In [1]: import requests
import json
from bs4 import BeautifulSoup

# API URL
url = "http://api.tvmaze.com/singlesearch/shows?q=westworld&embed=episodes"

# Send a GET request to the API URL and retrieve the data
response = requests.get(url)
data = json.loads(response.text)

# Iterate over each episode and extract the required data
for episode in data['_embedded']['episodes']:
    # Extract attributes
    episode_id = episode['id']
    episode_url = episode['url']
    episode_name = episode['name']
    season = episode['season']
    episode_number = episode['number']
    episode_type = episode['type']
    airdates = episode['airdates']
    airtimes = episode['airtimes']
    runtime = episode['runtime']
    average_rating = episode['rating']['average']

    # Clean up the summary by removing HTML tags using BeautifulSoup
    summary = BeautifulSoup(episode['summary'], 'html.parser').get_text(strip=True)

    # Extract image links
    image_medium = episode['image']['medium']
    image_original = episode['image']['original']

    # Print the extracted data with proper formatting
    print("Episode ID:", episode_id)
    print("URL:", episode_url)
    print("Name:", episode_name)
    print("Season:", season)
    print("Number:", episode_number)
    print("Type:", episode_type)
    print("Airdates:", airdates)
    print("Airtimes:", airtimes)
    print("Runtime:", runtime)
    print("Average Rating:", average_rating)
```

```
print("Summary:", summary)
print("Medium Image Link:", image_medium)
print("Original Image Link:", image_original)
print()
```

Episode ID: 869671

URL: <https://www.tvmaze.com/episodes/869671/westworld-1x01-the-original>

Name: The Original

Season: 1

Number: 1

Type: regular

Airdate: 2016-10-02

Airtime: 21:00

Runtime: 68

Average Rating: 8

Summary: A woman named Dolores is a free spirit in the Old West... and unaware that she's actually an android, programmed to entertain rich guests seeking to act out their fantasies in an idealized vision of the 1880s. However, the people in charge soon realize that their androids are acting in ways that they didn't anticipate.

Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/78/195475.jpg

Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/78/195475.jpg

Episode ID: 911201

URL: <https://www.tvmaze.com/episodes/911201/westworld-1x02-chestnut>

Name: Chestnut

Season: 1

Number: 2

Type: regular

Airdate: 2016-10-09

Airtime: 21:00

Runtime: 60

Average Rating: 7.7

Summary: Bernard suspects that someone is sabotaging the hosts. Meanwhile, the Man continues his search for the deeper game, and Maeve finds herself in a world of hurt... literally.

Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/78/195436.jpg

Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/78/195436.jpg

Episode ID: 911204

URL: <https://www.tvmaze.com/episodes/911204/westworld-1x03-the-stray>

Name: The Stray

Season: 1

Number: 3

Type: regular

Airdate: 2016-10-16

Airtime: 21:00

Runtime: 60

Average Rating: 7.6

Summary: Bernard continues to investigate Dolores' supposed malfunction, and realizes that he has something unexpected on his hands. Meanwhile, Robert talks about the early days of the park, and Teddy receives a new role and narrative.

Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/79/198183.jpg

Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/79/198183.jpg

Episode ID: 911205

URL: <https://www.tvmaze.com/episodes/911205/westworld-1x04-dissonance-theory>

Name: Dissonance Theory

Season: 1

Number: 4

Type: regular

Airdate: 2016-10-23

Airtime: 21:00

Runtime: 60

Average Rating: 7.9

Summary: While Dolores joins William and Logan on their adventure, the Man in Black continues his search for the entrance to the Maze and meets Armistice. Meanwhile, Robert reveals some of his true power to Theresa and advises her to stay out of his way.

Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/80/201367.jpg

Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/80/201367.jpg

Episode ID: 927174

URL: <https://www.tvmaze.com/episodes/927174/westworld-1x05-contrapasso>

Name: Contrapasso

Season: 1

Number: 5

Type: regular

Airdate: 2016-10-30

Airtime: 21:00

Runtime: 60

Average Rating: 8

Summary: Dolores takes the first step on her path of discovery by deciding to write a new story for herself... where she isn't the damsel. Meanwhile, Elise discovers the Woodcutter's secret, and Robert pays the Man a visit.

Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/81/204265.jpg

Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/81/204265.jpg

Episode ID: 932057
URL: <https://www.tvmaze.com/episodes/932057/westworld-1x06-the-adversary>
Name: The Adversary
Season: 1
Number: 6
Type: regular
Airdate: 2016-11-06
Airtime: 21:00
Runtime: 60
Average Rating: 8
Summary: While Maeve convinces Felix to show her "upstairs," Teddy and the Man close in on the maze. Meanwhile, Bernard and Elsie close in on the identity of the person who is stealing secrets from the park, while Lee meets with a Delos executive director.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/82/207324.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/82/207324.jpg

Episode ID: 938404
URL: <https://www.tvmaze.com/episodes/938404/westworld-1x07-trompe-loeil>
Name: Trompe L'Oeil
Season: 1
Number: 7
Type: regular
Airdate: 2016-11-13
Airtime: 21:00
Runtime: 60
Average Rating: 8.6
Summary: While William and Dolores travel to the unclaimed territories, Charlotte and Theresa make plans to force Robert out of the park using Clementine. Meanwhile, Maeve continues her plans to escape Westworld.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/83/209400.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/83/209400.jpg

Episode ID: 943065
URL: <https://www.tvmaze.com/episodes/943065/westworld-1x08-trace-decay>
Name: Trace Decay
Season: 1
Number: 8
Type: regular
Airdate: 2016-11-20
Airtime: 21:00
Runtime: 60
Average Rating: 7.9
Summary: Bernard tries to cope with what he did under Robert's orders. Meanwhile, William and Dolores find a to wn, and Maeve remembers more of her past. Meanwhile, the Man reveals his past to Teddy.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/84/211554.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/84/211554.jpg

Episode ID: 943066
URL: <https://www.tvmaze.com/episodes/943066/westworld-1x09-the-well-tempered-clavier>
Name: The Well-Tempered Clavier
Season: 1
Number: 9
Type: regular
Airdate: 2016-11-27
Airtime: 21:00
Runtime: 60
Average Rating: 8.5
Summary: Bernard forces Robert to take him back into his own memories, while the Man meets with Charlotte. Meanwhile, Dolores escapes the Confederado camp and William gives Logan new orders.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/85/213932.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/85/213932.jpg

Episode ID: 943067
URL: <https://www.tvmaze.com/episodes/943067/westworld-1x10-the-bicameral-mind>
Name: The Bicameral Mind
Season: 1
Number: 10
Type: regular
Airdate: 2016-12-04
Airtime: 21:00
Runtime: 90
Average Rating: 8.7
Summary: Delores finds out the truth about William's fate. Meanwhile, Maeve organizes an escape plan, only to discover that someone else is pulling the strings. And Robert plays the final piece in his grand narrative.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/86/216453.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/86/216453.jpg

Episode ID: 1214222
URL: <https://www.tvmaze.com/episodes/1214222/westworld-2x01-journey-into-night>
Name: Journey Into Night
Season: 2
Number: 1
Type: regular
Airdate: 2018-04-22

Airtime: 21:00
Runtime: 74
Average Rating: 7.8
Summary: In the aftermath of the host rebellion, the rescue team finds Bernard and the new Head of Operations asks for his help. Meanwhile, Dolores promises to show Teddy the truth, and Maeve convinces Lee and Hector to help her find her daughter.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/152/381118.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/152/381118.jpg

Episode ID: 1440915
URL: <https://www.tvmaze.com/episodes/1440915/westworld-2x02-reunion>
Name: Reunion
Season: 2
Number: 2
Type: regular
Airdate: 2018-04-29
Airtime: 21:00
Runtime: 60
Average Rating: 7.7
Summary: Dolores looks for allies sympathetic to her cause and shows Teddy the truth of his existence. In the past, Dolores gets her first taste of the outside world and William shows her a weapon of mass destruction.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/153/382957.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/153/382957.jpg

Episode ID: 1440916
URL: <https://www.tvmaze.com/episodes/1440916/westworld-2x03-virtu-e-fortuna>
Name: Virtù e Fortuna
Season: 2
Number: 3
Type: regular
Airdate: 2018-05-06
Airtime: 21:00
Runtime: 60
Average Rating: 7.7
Summary: While Dolores makes a deal with the Confederados, Maeve and her group find Felix and Sylvester. Meanwhile, a new Guest comes to Westworld, and Bernard has a meeting of minds with Peter.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/154/386069.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/154/386069.jpg

Episode ID: 1440917
URL: <https://www.tvmaze.com/episodes/1440917/westworld-2x04-the-riddle-of-the-sphinx>
Name: The Riddle of the Sphinx
Season: 2
Number: 4
Type: regular
Airdate: 2018-05-13
Airtime: 21:00
Runtime: 71
Average Rating: 8
Summary: William pays his recuperating father-in-law several visits. Meanwhile, the Man continues to play Robert's game, and Bernard remembers some of his missing time.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/155/387630.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/155/387630.jpg

Episode ID: 1446362
URL: <https://www.tvmaze.com/episodes/1446362/westworld-2x05-akane-no-mai>
Name: Akane No Mai
Season: 2
Number: 5
Type: regular
Airdate: 2018-05-20
Airtime: 21:00
Runtime: 60
Average Rating: 7.6
Summary: While Maeve and her people explore Shogun World, Dolores realizes that the Teddy she knows can't be a part of the new world coming.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/155/389365.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/155/389365.jpg

Episode ID: 1453278
URL: <https://www.tvmaze.com/episodes/1453278/westworld-2x06-phase-space>
Name: Phase Space
Season: 2
Number: 6
Type: regular
Airdate: 2018-05-27
Airtime: 21:00
Runtime: 60
Average Rating: 7.7
Summary: Maeve finds her daughter, Dolores finds the "real" Teddy, Grace finds her father, and Charlotte and Stubbs find Peter.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/156/390990.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/156/390990.jpg

Episode ID: 1459961
URL: <https://www.tvmaze.com/episodes/1459961/westworld-2x07-les-ecorches>
Name: Les Écorchés
Season: 2
Number: 7
Type: regular
Airdate: 2018-06-03
Airtime: 21:00
Runtime: 60
Average Rating: 7.9
Summary: Charlotte and Bernard review Bernard's memories to discover what happened to the missing control unit. Meanwhile, Robert has a chat with Bernard, and Maeve confronts her former tormentor.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/156/392143.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/156/392143.jpg

Episode ID: 1459788
URL: <https://www.tvmaze.com/episodes/1459788/westworld-2x08-kiksuya>
Name: Kiksuya
Season: 2
Number: 8
Type: regular
Airdate: 2018-06-10
Airtime: 21:00
Runtime: 60
Average Rating: 8.7
Summary: Another of Westworld's Host revolutionaries is revealed. Meanwhile, Emily finds the Man and convinces the Ghost Nation to hand him over to her to ensure his suffering.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/157/393811.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/157/393811.jpg

Episode ID: 1459789
URL: <https://www.tvmaze.com/episodes/1459789/westworld-2x09-vanishing-point>
Name: Vanishing Point
Season: 2
Number: 9
Type: regular
Airdate: 2018-06-17
Airtime: 21:00
Runtime: 60
Average Rating: 8.4
Summary: The Man learns that his grip on reality isn't what he thought, as he considers how his wife died. Meanwhile, Dolores continues her trek across the park to the Valley Beyond, and Bernard receives another visit from Robert.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/158/395754.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/158/395754.jpg

Episode ID: 1459790
URL: <https://www.tvmaze.com/episodes/1459790/westworld-2x10-the-passenger>
Name: The Passenger
Season: 2
Number: 10
Type: regular
Airdate: 2018-06-24
Airtime: 21:00
Runtime: 90
Average Rating: 8.5
Summary: The Man faces a personal reckoning, while Akecheta and the others find the door. Meanwhile, Bernard meets with Robert one last time after choosing how to deal with Dolores.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/158/397018.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/158/397018.jpg

Episode ID: 1789333
URL: <https://www.tvmaze.com/episodes/1789333/westworld-3x01-parce-domine>
Name: Parce Domine
Season: 3
Number: 1
Type: regular
Airdate: 2020-03-15
Airtime: 21:00
Runtime: 70
Average Rating: 8
Summary: If you're stuck in a loop, try walking in a straight line.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/246/615760.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/246/615760.jpg

Episode ID: 1800146
URL: <https://www.tvmaze.com/episodes/1800146/westworld-3x02-the-winter-line>
Name: The Winter Line
Season: 3
Number: 2
Type: regular
Airdate: 2020-03-22

Airtime: 21:00
Runtime: 60
Average Rating: 7.8
Summary: People put up a lot of walls. Bring a sledgehammer to your life.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/247/619379.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/247/619379.jpg

Episode ID: 1800147
URL: <https://www.tvmaze.com/episodes/1800147/westworld-3x03-the-absence-of-field>
Name: The Absence of Field
Season: 3
Number: 3
Type: regular
Airdate: 2020-03-29
Airtime: 21:00
Runtime: 60
Average Rating: 7.8
Summary: If you don't like what you see in the mirror, don't blame the mirror.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/247/619381.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/247/619381.jpg

Episode ID: 1800148
URL: <https://www.tvmaze.com/episodes/1800148/westworld-3x04-the-mother-of-exiles>
Name: The Mother of Exiles
Season: 3
Number: 4
Type: regular
Airdate: 2020-04-05
Airtime: 21:00
Runtime: 70
Average Rating: 8
Summary: The truth doesn't always set you free.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/249/623071.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/249/623071.jpg

Episode ID: 1800149
URL: <https://www.tvmaze.com/episodes/1800149/westworld-3x05-genre>
Name: Genre
Season: 3
Number: 5
Type: regular
Airdate: 2020-04-12
Airtime: 21:00
Runtime: 60
Average Rating: 7.9
Summary: Just say no.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/251/629355.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/251/629355.jpg

Episode ID: 1829375
URL: <https://www.tvmaze.com/episodes/1829375/westworld-3x06-decoherence>
Name: Decoherence
Season: 3
Number: 6
Type: regular
Airdate: 2020-04-19
Airtime: 21:00
Runtime: 60
Average Rating: 7.5
Summary: Do a lot of people tell you that you need therapy?
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/252/632212.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/252/632212.jpg

Episode ID: 1800151
URL: <https://www.tvmaze.com/episodes/1800151/westworld-3x07-passed-pawn>
Name: Passed Pawn
Season: 3
Number: 7
Type: regular
Airdate: 2020-04-26
Airtime: 21:00
Runtime: 60
Average Rating: 7.5
Summary: A real friend is one who walks in when the rest of the world walks out. Caleb gets an insight on the true nature of his past; Dolores seeks out Rehoboam's predecessor, while Maeve tracks her down; Bernard, Stubbs, and William escape from all the chaos.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/254/635599.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/254/635599.jpg

Episode ID: 1800152
URL: <https://www.tvmaze.com/episodes/1800152/westworld-3x08-crisis-theory>
Name: Crisis Theory
Season: 3

Number: 8
Type: regular
Airdate: 2020-05-03
Airtime: 21:00
Runtime: 75
Average Rating: 7.7
Summary: Time to face the music. Dolores' true intentions are revealed; Bernard confronts a ghost from his past ; Maeve is conflicted; Serac's voice is dominant; Caleb's role is revealed; and William faces an unexpected villain.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/254/635189.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/254/635189.jpg

Episode ID: 2326389
URL: <https://www.tvmaze.com/episodes/2326389/westworld-4x01-the-auguries>
Name: The Auguries
Season: 4
Number: 1
Type: regular
Airdate: 2022-06-26
Airtime: 21:00
Runtime: 55
Average Rating: 7.1
Summary: Hello again. Don't worry about a thing. It's all in your head.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/414/1035413.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/414/1035413.jpg

Episode ID: 2326655
URL: <https://www.tvmaze.com/episodes/2326655/westworld-4x02-well-enough-alone>
Name: Well Enough Alone
Season: 4
Number: 2
Type: regular
Airdate: 2022-07-03
Airtime: 21:00
Runtime: 55
Average Rating: 7.4
Summary: I heard a fly buzz when I died.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/414/1036909.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/414/1036909.jpg

Episode ID: 2326656
URL: <https://www.tvmaze.com/episodes/2326656/westworld-4x03-annees-folles>
Name: Années Folles
Season: 4
Number: 3
Type: regular
Airdate: 2022-07-10
Airtime: 21:00
Runtime: 55
Average Rating: 7.6
Summary: You can never go back again. But if you do, bring a shovel.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/415/1038520.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/415/1038520.jpg

Episode ID: 2326657
URL: <https://www.tvmaze.com/episodes/2326657/westworld-4x04-generation-loss>
Name: Generation Loss
Season: 4
Number: 4
Type: regular
Airdate: 2022-07-17
Airtime: 21:00
Runtime: 51
Average Rating: 7.7
Summary: Should auld acquaintance be forgot and days of auld lang syne?
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/415/1039531.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/415/1039531.jpg

Episode ID: 2326658
URL: <https://www.tvmaze.com/episodes/2326658/westworld-4x05-zhuangzi>
Name: Zhuangzi
Season: 4
Number: 5
Type: regular
Airdate: 2022-07-24
Airtime: 21:00
Runtime: 60
Average Rating: 7.8
Summary: God is bored.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/416/1042460.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/416/1042460.jpg

Episode ID: 2326659

URL: <https://www.tvmaze.com/episodes/2326659/westworld-4x06-fidelity>
Name: Fidelity
Season: 4
Number: 6
Type: regular
Airdate: 2022-07-31
Airtime: 21:00
Runtime: 60
Average Rating: 7.5
Summary: To thine own selves be true.
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/417/1044302.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/417/1044302.jpg

Episode ID: 2326660
URL: <https://www.tvmaze.com/episodes/2326660/westworld-4x07-metanoia>
Name: Metanoia
Season: 4
Number: 7
Type: regular
Airdate: 2022-08-07
Airtime: 21:00
Runtime: 60
Average Rating: 7.7
Summary: You want to have a drink at a time like this?
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/418/1045645.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/418/1045645.jpg

Episode ID: 2326661
URL: <https://www.tvmaze.com/episodes/2326661/westworld-4x08-que-sera-sera>
Name: Que Será, Será
Season: 4
Number: 8
Type: regular
Airdate: 2022-08-14
Airtime: 21:00
Runtime: 60
Average Rating: 7.5
Summary: Like what I've done with the place? (I just cranked it to expert level.)
Medium Image Link: https://static.tvmaze.com/uploads/images/medium_landscape/418/1046925.jpg
Original Image Link: https://static.tvmaze.com/uploads/images/original_untouched/418/1046925.jpg

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