ANS=1

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

def search_product(product):

  search_query = product.replace(' ', '+')


  url = f'https://www.amazon.in/s?k={search_query}'
    response = requests.get(url)


  soup = BeautifulSoup(response.content, 'html.parser')


  products = soup.find_all('div', {'data-component-type': 's-search-result'})


  for product in products:

  title = product.find('span', {'class': 'a-size-medium'}).text.strip()


  price = product.find('span', {'class': 'a-price-whole'}).text.strip()


  rating = product.find('span', {'class': 'a-icon-alt'}).text.strip()


    print(f'Title: {title}')
    print(f'Price: {price}')
    print(f'Rating: {rating}')
    print('---')


product = input('guitars: ')


search_product(product)
```

ans=3

In [ ]:
```
from selenium import webdriver
import time

driver = webdriver.Chrome('path_to_chromedriver')


driver.get('https://images.google.com')


keywords = ['fruits', 'cars', 'Machine Learning', 'Guitar', 'Cakes']


for keyword in keywords:

  search_bar = driver.find_element_by_name('q')
    search_bar.clear()
    search_bar.send_keys(keyword)


    search_button = driver.find_element_by_css_selector('button[type="submit"]')
    search_button.click()


    time.sleep(2)


    driver.execute_script('window.scrollTo(0, document.body.scrollHeight);')
    time.sleep(2)


    images = driver.find_elements_by_css_selector('img.rg_i')
    for i in range(10):
    image_url = images[i].get_attribute('src')
    print(f"Scraped image {i+1} for keyword '{keyword}': {image_url}")


    driver.quit()
```

ANS=4

In [ ]:
```
import requests
from bs4 import BeautifulSoup
import pandas as pd


def scrape_smartphones():
    url = "https://www.flipkart.com/search?q=smartphone"
    response = requests.get(url)
    soup = BeautifulSoup(response.content, 'html.parser')

  smartphones = []

  results = soup.find_all('div', {'class': '_1AtVbE'})

  for result in results:
        details = {}


        details['Brand Name'] = result.find('div', {'class': '_4rR01T'}).text
        details['Smartphone Name'] = result.find('a', {'class': 'IRpwTa'}).text
        details['Colour'] = result.find('div', {'class': '_2WkVRV'}).text
        details['RAM'] = result.find('ul', {'class': '_1xgFaf'}).find_all('li')[0].text
        details['Storage(ROM)'] = result.find('ul', {'class': '_1xgFaf'}).find_all('li')[1].text
        details['Primary Camera'] = result.find('ul', {'class': '_1xgFaf'}).find_all('li')[2].text
        details['Secondary Camera'] = result.find('ul', {'class': '_1xgFaf'}).find_all('li')[3].text
        details['Display Size'] = result.find('ul', {'class': '_1xgFaf'}).find_all('li')[4].text
        details['Battery Capacity'] = result.find('ul', {'class': '_1xgFaf'}).find_all('li')[5].text
        details['Price'] = result.find('div', {'class': '_30jeq3 _1_WHN1'}).text
        details['Product URL'] = "https://www.flipkart.com" + result.find('a', {'class': 'IRpwTa'})['href']

  smartphones.append(details)

  return smartphones


smartphones = scrape_smartphones()


df = pd.DataFrame(smartphones)


df.fillna("-", inplace=True)


df.to_csv('smartphones.csv', index=False)
```

ANS=5

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

def get_coordinates(city):

  formatted_city = city.replace(" ", "+")


  url = f"https://www.google.com/maps/search/{formatted_city}"
    response = requests.get(url)


  soup = BeautifulSoup(response.text, "html.parser")


  coordinates_element = soup.find("meta", itemprop="image")


  coordinates = coordinates_element["content"].split("/")[1].strip().split(",")


  return float(coordinates[0]), float(coordinates[1])


city = input("Enter a city name: ")
latitude, longitude = get_coordinates(city)
print(f"The coordinates of {city} are: Latitude: {latitude}, Longitude: {longitude}")
```

ANS=6

In [ ]:
```
from selenium import webdriver
import time

driver = webdriver.Chrome('path_to_chromedriver')


driver.get('https://www.digit.in/')


search_bar = driver.find_element_by_id('searchDiv')
search_bar.send_keys('gaming laptops')
search_bar.submit()

time.sleep(2)


laptop_elements = driver.find_elements_by_class_name('searchPage')
laptop_details = []

for laptop in laptop_elements:
    name = laptop.find_element_by_class_name('searchProductTitle').text
    price = laptop.find_element_by_class_name('searchPrice').text
    specifications = laptop.find_element_by_class_name('searchSpec').text

  laptop_details.append({
  'Name': name,
  'Price': price,
  'Specifications': specifications
  })


for laptop in laptop_details:
    print(laptop)


driver.quit()
```

ANS=7

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


url = "https://www.forbes.com/billionaires/"
response = requests.get(url)


soup = BeautifulSoup(response.content, "html.parser")


table = soup.find("table", class_="table")


rows = table.find_all("tr")


for row in rows:

  columns = row.find_all("td")

    rank = columns[0].text.strip()
    name = columns[1].text.strip()
    net_worth = columns[2].text.strip()
    age = columns[3].text.strip()
    citizenship = columns[4].text.strip()
    source = columns[5].text.strip()
    industry = columns[6].text.strip()


    print("Rank:", rank)
    print("Name:", name)
    print("Net Worth:", net_worth)
    print("Age:", age)
    print("Citizenship:", citizenship)
    print("Source:", source)
    print("Industry:", industry)
    print()
```

ANS=8

In [ ]:
```
from selenium import webdriver
import time


driver = webdriver.Chrome()


video_url = 'https://www.youtube.com/watch?v=your_video_id'
driver.get(video_url)


scroll_pause_time = 2
scrolls = 10

for _ in range(scrolls):
    driver.execute_script("window.scrollTo(0, document.documentElement.scrollHeight);")
    time.sleep(scroll_pause_time)


comments = driver.find_elements_by_xpath('//yt-formatted-string[@id="content-text"]')
upvotes = driver.find_elements_by_xpath('//span[@id="vote-count-middle"]')
times = driver.find_elements_by_xpath('//a[@class="yt-simple-endpoint style-scope yt-formatted-string"]')


extracted_data = []
for comment, upvote, time in zip(comments, upvotes, times):
    extracted_data.append({
  'comment': comment.text,
  'upvote': upvote.text,
  'time': time.text
  })


driver.quit()
for data in extracted_data:
    print(data)
```

ANS=9

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


url = "https://www.hostelworld.com/hostels/London"
response = requests.get(url)


soup = BeautifulSoup(response.content, "html.parser")


hostels = soup.find_all("div", class_="fabresult")

for hostel in hostels:

  name = hostel.find("h2", class_="fabresult-title").text.strip()


    distance = hostel.find("span", class_="distance").text.strip()


    ratings = hostel.find("div", class_="rating").text.strip()


    total_reviews = hostel.find("div", class_="reviews").text.strip()


    overall_reviews = hostel.find("div", class_="overall").text.strip()


    privates_price = hostel.find("div", class_="price-col").find("div", class_="price").text.strip()


    dorms_price = hostel.find("div", class_="price-col").find("div", class_="price").find_next_sibling("div", class_="price").text.strip()


    facilities = hostel.find("div", class_="facilities").text.strip()


    description = hostel.find("div", class_="description").text.strip()


    print("Hostel Name:", name)
    print("Distance from City Centre:", distance)
    print("Ratings:", ratings)
    print("Total Reviews:", total_reviews)
    print("Overall Reviews:", overall_reviews)
    print("Privates from Price:", privates_price)
    print("Dorms from Price:", dorms_price)
    print("Facilities:", facilities)
    print("Property Description:", description)
    print()
```