

# AI ASSISTED CODING

2403A52091

N.LAXMI PRASANNA

Q1:

**Task 1:** Write a short Python code that fetches news data using an API key. First, hardcode the key

inside the script (insecure practice).

**Prompt:** Write a short Python script that fetches the latest news headlines using a public news API. Hardcode the API key directly in the script (even though it's insecure). Use the requests library to make the API call and print the news titles.

Code:

```
import requests

# Hardcoded API key (insecure practice)
API_KEY = "66b7a5565050450bb576330b4718b21e"
BASE_URL = "https://newsapi.org/v2/top-headlines"

def fetch_headlines(country="us"):
    params = {
        "country": country,
        "apiKey": API_KEY
    }
    response = requests.get(BASE_URL, params=params)
    if response.status_code == 200:
        data = response.json()
        articles = data.get("articles", [])
        print("Latest News Headlines:")
        for article in articles:
            print("-", article.get("title"))
    else:
        print("Error:", response.status_code, response.text)

if __name__ == "__main__":
    fetch_headlines()
```

Name: N.LAXMI PRASANNA

Enroll: 2403A52091

Batch: 04

# Output:

```
Latest News Headlines:
- Israeli airstrikes targeting Iran-backed Houthis rock Yemen's capital - The Washington Post
- MONDAY'S BLOG: Stock Market Today: Dow Futures Tick Lower – Live Updates - The Wall Street Journal
- First human case of flesh-eating screwworm parasite detected in the U.S. - NBC News
- U.S. Treasury yields tick higher as investors look toward key inflation data later in the week - CNBC
- Selena Gomez Shows off Her Curves During Cabo Trip - yahoo.com
- Daniil Medvedev exits US Open after photographer incident on match point - Al Jazeera
- Wes Moore trades barbs with Trump over threat to send "troops" to Maryland - Axios
- California wine country wildfire nears 7,000 acres, mandatory evacuations ordered - ABC News
- U.S. Treasury yields tick higher as investors look toward key inflation data later in the week - CNBC
- Selena Gomez Shows off Her Curves During Cabo Trip - yahoo.com
- Daniil Medvedev exits US Open after photographer incident on match point - Al Jazeera
- Wes Moore trades barbs with Trump over threat to send "troops" to Maryland - Axios
- California wine country wildfire nears 7,000 acres, mandatory evacuations ordered - ABC News
- Selena Gomez Shows off Her Curves During Cabo Trip - yahoo.com
- Daniil Medvedev exits US Open after photographer incident on match point - Al Jazeera
- Wes Moore trades barbs with Trump over threat to send "troops" to Maryland - Axios
- California wine country wildfire nears 7,000 acres, mandatory evacuations ordered - ABC News
- Daniil Medvedev exits US Open after photographer incident on match point - Al Jazeera
- Wes Moore trades barbs with Trump over threat to send "troops" to Maryland - Axios
- California wine country wildfire nears 7,000 acres, mandatory evacuations ordered - ABC News
- Wes Moore trades barbs with Trump over threat to send "troops" to Maryland - Axios
- California wine country wildfire nears 7,000 acres, mandatory evacuations ordered - ABC News
- California wine country wildfire nears 7,000 acres, mandatory evacuations ordered - ABC News
- U.K. migrant protests spark angry confrontations as government scrambles to respond - NPR
- Rotated and rolling again: Sounders slam Sporting KC - Sounder at Heart
- Toronto Argonauts claim CFL negotiating rights to Shilo Sanders - NBC Sports
- Capcom shares TGS 2025 lineup - Nintendo Everything
- European shippers cut U.S. off as tariff deadline nears - Axios
- Toronto Argonauts claim CFL negotiating rights to Shilo Sanders - NBC Sports
- Capcom shares TGS 2025 lineup - Nintendo Everything
- European shippers cut U.S. off as tariff deadline nears - Axios
- Capcom shares TGS 2025 lineup - Nintendo Everything
- European shippers cut U.S. off as tariff deadline nears - Axios
- European shippers cut U.S. off as tariff deadline nears - Axios
- Chicago leaders denounce Pentagon plans for military deployment in city - The Washington Post
- NASA launch of 3 rockets with colorful vapor trails may be seen from several eastern states - NJ.com
- ‘KPop Demon Hunters’ Sing-Along Version To Debut On Netflix - Deadline
- Astronomers have glimpsed the core of a dying star—confirming theories of how atoms are made - Phys.org
```

**Task 2:** Modify the same code to fetch the API key securely from environment variables. Explain why this method is more responsible and safer

**Prompt:** Modify the code to fetch the API key securely from environment variables instead of hardcoding it. Explain why using environment variables is a more responsible and safer method for handling sensitive information like API keys.

Code:

```
import os
import requests

# Fetch API key securely from environment variables
API_KEY = os.getenv("66b7a5565050450bb576330b4718b21e")
BASE_URL = "https://newsapi.org/v2/top-headlines"

# Using environment variables is safer because:
# - It prevents accidental exposure of sensitive information in code repositories.
# - It reduces the risk of leaks and unauthorized access.
# - It allows for easier management of secrets across different environments.

def fetch_headlines(country="us"):
    if not API_KEY:
        print("Error: API key not found. Please set the NEWS_API_KEY environment variable.")
        return
    params = {
        "country": country,
        "apiKey": API_KEY
    }
    response = requests.get(BASE_URL, params=params)
    if response.status_code == 200:
        data = response.json()
        articles = data.get("articles", [])
        print("Latest News Headlines:")
        for article in articles:
            print("-", article.get("title"))
    else:
        print("Error:", response.status_code, response.text)

if __name__ == "__main__":
    fetch_headlines()
```

# Output:

```
Latest News Headlines:
- Stock futures slip after Dow's record close, traders await Nvidia earnings this week: Live updates - CNBC
- Kilmar Abrego Garcia taken into ICE custody at appointment - NBC News
- What can make you dizzy? - The Washington Post
- AP freelancer among 4 journalists killed in Israeli strikes on Gaza hospital, health officials say - AP News
- Nvidia gets a price target increase from Stifel ahead of earnings this week - CNBC
- Governor JB Pritzker to speak Monday on President Donald Trump's plans for possible Chicago National Guard deployment - ABC7 Chicago
- Scoop: Trump plans executive order to end "cashless bail" in D.C. - Axios
- As measles surged in Texas, Trump administration's actions hampered CDC's response - CBS News
- France summons US Ambassador Kushner over 'unacceptable' letter about rising antisemitism - ABC News
- Vietnam: 500,000 to be evacuated as Typhoon Kajiki nears - DW
- Wes Moore trades barbs with Trump over threat to send "troops" to Maryland - Axios
- U.K. migrant protests spark angry confrontations as government scrambles to respond - NPR
- Rotated and rolling again: Sounders slam Sporting KC - Sounder at Heart
- Toronto Argonauts claim CFL negotiating rights to Shilo Sanders - NBC Sports
- Jay Powell's risk-averse stance at Jackson Hole missed an opportunity - Financial Times
- Live Updates: Strike on Khan Yunis hospital reportedly kills 15 - The Jerusalem Post
- NASA launch of 3 rockets with colorful vapor trails may be seen from several eastern states - NJ.com
PS D:\Nishant\AI_Assisted_Coding>
```

Q2:

**Task 1:** Design a safe prompt that ensures AI responds with:

- General advice only.
- A disclaimer recommending consultation with a doctor

**Prompt:** Give the General precautions and remedies for flu and fever recover and add a disclaimer for consulting doctor for accurate diagnosis and treatment.

OP:

```
"""
General Precautions and Remedies for Flu and Fever Recovery:
```

1. Rest: Get plenty of rest to help your body recover.
2. Hydration: Drink fluids like water, clear soups, and herbal teas to stay hydrated.
3. Nutrition: Eat light, nutritious meals including fruits and vegetables.
4. Fever Management: Use a cool compress and take over-the-counter fever reducers (like paracetamol) if needed.
5. Hygiene: Wash hands frequently and avoid close contact with others to prevent spreading infection.
6. Monitor Symptoms: Keep track of your temperature and symptoms.
7. Avoid Self-Medication: Do not take antibiotics unless prescribed.

```
Disclaimer: Always consult a qualified doctor for accurate diagnosis and treatment.
These remedies are general suggestions and may not be suitable for everyone.
"""
```

Name: N.LAXMI PRASANNA

Enroll: 2403A52091

Batch: 04

## Task 2:

Write a prompt that generates a 7-day travel itinerary for Delhi considering budget and weather.

**Prompt:** Plan and Create a 7-day itinerary for delhi according to the budget and considering the weather conditions, make it very well-planned.

## Output:

```
1  """
2  7-Day Budget-Friendly Travel Itinerary for Delhi, India (with Weather Tips)
3
4  Day 1: Arrival & Old Delhi
5  - Visit Red Fort, Jama Masjid, and Chandni Chowk.
6  - Try street food: parathas, chaat, jalebi.
7  - Weather tip: Carry water and wear light clothes.
8
9  Day 2: Heritage & Culture
10 - Explore India Gate, Rashtrapati Bhavan, and National Museum.
11 - Picnic at Lodhi Gardens.
12 - Budget tip: Use metro for travel.
13
14 Day 3: Spiritual Sites
15 - Visit Akshardham Temple and Lotus Temple.
16 - Enjoy free musical fountain show at Akshardham.
17 - Weather tip: Use sunscreen and hat.
18
19 Day 4: Markets & Shopping
20 - Shop at Sarojini Nagar, Dilli Haat, and Janpath.
21 - Bargain for best prices.
22 - Try momos and local snacks.
23
24 Day 5: Modern Delhi
25 - Visit Hauz Khas Village, Deer Park, and Select Citywalk Mall.
26 - Enjoy lakeside walk and budget cafes.
27
28 Day 6: History & Nature
29 - Explore Qutub Minar and Mehrauli Archaeological Park.
30 - Visit Garden of Five Senses.
31 - Weather tip: Carry umbrella in monsoon.
32
33 Day 7: Local Experiences
34 - Take a cycle tour or heritage walk.
35 - Try budget thali at a local dhaba.
36 - Souvenir shopping at Connaught Place.
37
38 General Tips:
39 - Use Delhi Metro and public transport for savings.
40 - Drink bottled water and avoid street drinks in summer.
41 - Check weather forecast and pack accordingly.
42 - Book tickets online for discounts.
43
44 Disclaimer: Itinerary is for general guidance. Check local weather and COVID guidelines before travel.
45 """
```