### Overview

In this task, I focused on setting up and testing the Flask API endpoint that returns MCQs and flashcards based on the lecture summary.

# **©** Task Summary

- I created the /generate\_quiz Flask route to accept summary input
- I used the functions build\_prompt() and call\_ai\_model() provided by Person A
- I returned the output in JSON format
- I tested everything using Postman, including edge cases

# K Flask Integration (app.py)

from utils.quiz\_generator import build\_prompt, call\_ai\_model

```
@app.route('/generate_quiz', methods=['POST'])

def generate_quiz():
    data = request.get_json()
    summary = data.get('summary', '')

if not summary:
    return jsonify({'error': 'Summary is required'}), 400

prompt = build_prompt(summary)

result = call_ai_model(prompt)

return jsonify(result)
```

# 🥕 Postman Testing Steps

- 1. I opened Postman and created a new **POST** request
- 2. Set the **URL** to: http://localhost:5000/generate\_quiz

3. Added the following header: Content-Type: application/json

4. In the **Body** → raw → **JSON**, I entered:

```
{
   "summary": "Machine learning is a subset of AI that helps computers learn from data."
}
```

5. Clicked **Send** and reviewed the response.

# **Expected Output Format**

```
json
CopyEdit
{
"mcqs": [
  {
   "question": "...",
   "options": {
    "A": "...",
    "B": "...",
    "C": "...",
    "D": "..."
   },
   "correct_answer": "A"
  }
],
"flashcards": [
 {
```

```
"question": "...",

"answer": "..."

}
]
```

### Edge Case Testing

- Sent an **empty summary** → Got an error as expected
- Tried a very short summary → Got fallback content or still valid structure
- Sent **no 'summary' key** → Got 400 error

### File Structure Summary

#### Final Checklist

- /generate\_quiz route implemented
- API tested in Postman with various inputs
- Output JSON validated
- Error handling checked