7. Build a REST API to Create (POST) and Fetch All Articles (GET) using Express • Create a POST endpoint/article to insert new article data into PostgreSQL. • Create a GET endpoint /articles to fetch all articles from PostgreSQL. • Test both APIs using Postman. • Output: Successfully inserted article should return a JSON object, and GET should return all articles.

Server.js

```
// app.js
const express = require('express');
const bodyParser = require('body-parser');
const { Client } = require('pg');
const app = express();
const port = 3000;
// Middleware to parse JSON bodies
app.use(bodyParser.json());
// Set up PostgreSQL client
const client = new Client({
 user: 'postgres', // Replace with your PostgreSQL username
 host: 'localhost',
 database: 'articles_db', // Replace with your PostgreSQL database name
 password: 'postgres', // Replace with your PostgreSQL password
 port: 5432,
});
// Connect to PostgreSQL
client.connect();
```

```
// POST endpoint to insert a new article
app.post('/article', async (req, res) => {
 const { title, content } = req.body;
 if (!title || !content) {
  return res.status(400).json({ error: 'Title and content are required' });
 }
 try {
  const result = await client.query(
   'INSERT INTO articles (title, content) VALUES ($1, $2) RETURNING *',
   [title, content]
  );
  const newArticle = result.rows[0];
  res.status(201).json(newArticle); // Return the inserted article as JSON
 } catch (err) {
  console.error('Error inserting article:', err);
  res.status(500).json({ error: 'An error occurred while inserting the article' });
}
});
// GET endpoint to fetch all articles
app.get('/articles', async (req, res) => {
 try {
  const result = await client.query('SELECT * FROM articles ORDER BY created_at DESC');
  const articles = result.rows;
  res.status(200).json(articles); // Return the articles as JSON
 } catch (err) {
```

```
console.error('Error fetching articles:', err);
res.status(500).json({ error: 'An error occurred while fetching articles' });
});

// Start the server
app.listen(port, () => {
  console.log(`Server is running on http://localhost:${port}`);
});
```

```
\article-api>npm init -y
```

o\article-api>npm install express pg body-parser

```
EXPLORER
...

Server.js
X

| JS server.js | Server.js |
```

Psql shell:

OUTPUT:

```
C:\Users\gayathri rao>cd article-api
C:\Users\gayathri rao\article-api>node server.js
Server is running on http://localhost:3000
```

Postman:

