Ex. No: 8	
9.10.2023	Building a REST API with Express, Node, and MongoDB

Aim:

To Build a REST API with Express, Node, and MongoDB

Program:

Server.js

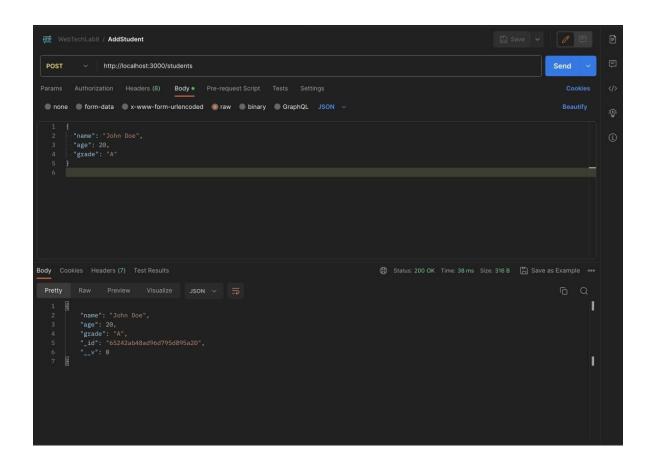
```
const express = require('express')
const app = express()
const mongoose = require('mongoose')
mongoose.connect('mongodb://localhost:27017/student', { useNewUrlParser: true })
const db = mongoose.connection
db.on('error', (error) => console.error(error))
db.once('open', () => console.log('Connected to Database'))
app.use(express.json())
const studentSchema = new mongoose.Schema({
  name: String,
  age: Number,
  grade: String,
});
const Student = mongoose.model('Student', studentSchema);
app.get('/students', async (req, res) => {
  try {
     const students = await Student.find();
     res.json(students);
  } catch (error) {
     res.status(500).json({ error: error.message });
});
app.post('/students', async (req, res) => {
```

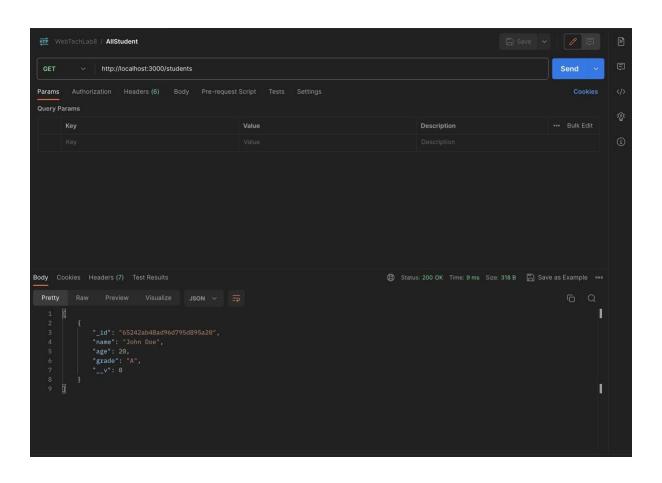
```
const { name, age, grade } = req.body;
  try {
     const newStudent = new Student({ name, age, grade });
     await newStudent.save();
     res.json(newStudent);
  } catch (error) {
     res.status(500).json({ error: error.message });
app.put('/students/:id', async (req, res) => {
  const { id } = req.params;
  const { name, age, grade } = req.body;
  try {
     const updatedStudent = await Student.findByIdAndUpdate(
       { name, age, grade },
       { new: true } // Return the updated document
     if (!updatedStudent) {
       return res.status(404).json({ error: 'Student not found' });
     res.json(updatedStudent);
  } catch (error) {
     res.status(500).json({ error: error.message });
});
app.delete('/students/:id', async (req, res) => {
  const { id } = req.params;
     const deletedStudent = await Student.findByldAndDelete(id);
     if (!deletedStudent) {
       return res.status(404).json({ error: 'Student not found' });
```

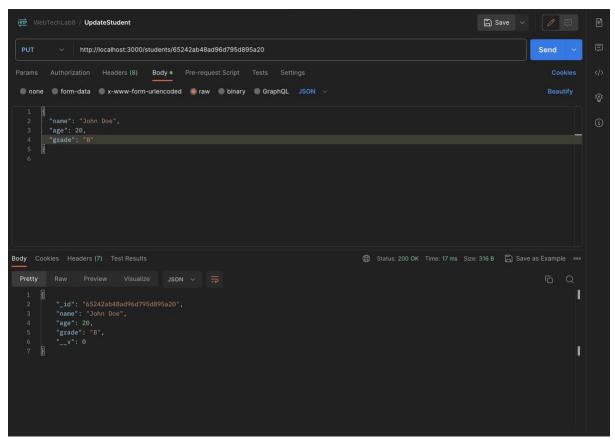
```
res.json({ message: 'Student deleted successfully' });
} catch (error) {
   res.status(500).json({ error: error.message });
}
});

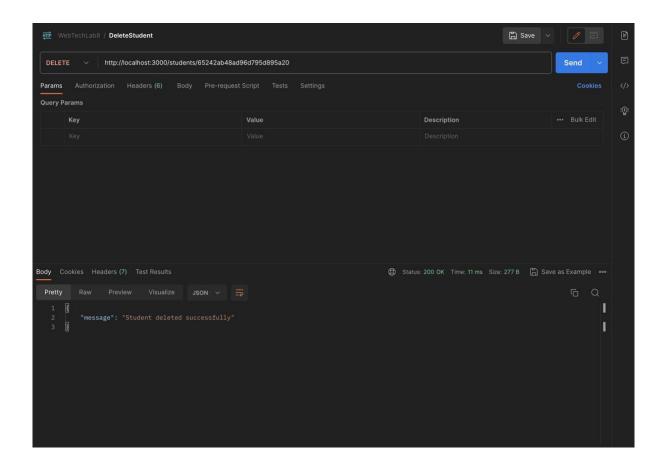
app.listen(3000, () => console.log('Server Started'))
```

Output:









Git hub link: https://github.com/vatsav123/webtech-all-labs.git

Result:

Successfully built a REST API with Express, Node, and MongoDB