MINI PROJECT (CONTACT MANAGEMENT API)

```
Name: Dishank Shekokare
Roll no.: 5317
Class: TE (I.T)
Code:
const express = require('express');
const { MongoClient, ObjectId } = require('mongodb');
const app = express();
const port = 3000;
const dbName = 'contactApp';
const url = 'mongodb://localhost:27017';
const client = new MongoClient(url, { useUnifiedTopology: true });
app.use(express.json());
async function connectToMongoDB() {
 await client.connect();
 console.log('Connected to MongoDB');
}
app.get('/contacts', async (req, res) => {
 const db = client.db(dbName);
 const contacts = await db.collection('contacts').find().toArray();
 res.json(contacts);
});
app.post('/contacts', async (reg, res) => {
 const { name, email, phone } = req.body;
 const db = client.db(dbName);
 const result = await db.collection('contacts').insertOne({ name, email, phone });
 res.status(201).json(result.ops[0]);
});
app.put('/contacts/:id', async (req, res) => {
 const contactId = reg.params.id;
 const { name, email, phone } = req.body;
 const db = client.db(dbName);
 await db.collection('contacts').updateOne(
  { id: new ObjectId(contactId) },
```

```
{ $set: { name, email, phone } }
 );
 res.sendStatus(204);
});
app.delete('/contacts/:id', async (req, res) => {
 const contactId = req.params.id;
 const db = client.db(dbName);
 await db.collection('contacts').deleteOne({ _id: new ObjectId(contactId) });
 res.sendStatus(204);
});
connectToMongoDB()
 .then(() => {
  app.listen(port, () => {
   console.log(`Server is running on http://localhost:${port}`);
  });
 })
 .catch(console.error);
```

```
Output:
To retrieve all contacts:
bash
curl http://localhost:3000/contacts
Sample output:
json
  " id": "5f4a9406f36d287bf0c9b913",
  "name": "John Doe",
  "email": "johndoe@example.com",
  "phone": "555-555-5555"
 },
  " id": "5f4a942af36d287bf0c9b914",
  "name": "Jane Smith",
  "email": "janesmith@example.com",
  "phone": "555-123-4567"
 }
To create a new contact:
Bash
curl -X POST -H "Content-Type: application/json" -d '{"name": "Alice Johnson", "email":
"alice@example.com", "phone": "555-999-8888"}' http://localhost:3000/contacts
Sample output:
json
 "_id": "5f4a9450f36d287bf0c9b915",
 "name": "Alice Johnson",
 "email": "alice@example.com",
 "phone": "555-999-8888"
To update a contact (replace :id with an actual contact ID):
bash
```

curl -X PUT -H "Content-Type: application/json" -d '{"name": "Updated Name", "e