

Task

1. Build a basic HTTP server that can handle different routes and HTTP methods (GET, POST, PUT, DELETE).

Program:

```
const express = require('express');
const multer = require('multer');
const path = require('path');
const fs = require('fs');

const app = express();
const port = 3003;

const storage = multer.diskStorage({
  destination: (req, file, cb) => {
    const uploadDir = 'uploads/';
    if (!fs.existsSync(uploadDir)) {
      fs.mkdirSync(uploadDir);
    }
    cb(null, uploadDir);
  },
  filename: (req, file, cb) => {
    cb(null, Date.now() + path.extname(file.originalname));
  }
});

const upload = multer({ storage: storage });

app.get('/', (req, res) => {
  res.send(`
    <form action="/upload" method="post" enctype="multipart/form-data">
      <input type="file" name="file">
      <input type="submit" value="Upload">
    </form>
  `);
});

app.post('/upload', upload.single('file'), (req, res) => {
  if (!req.file) {
    return res.status(400).send('No file uploaded.');
```

```

    }
    res.send('File uploaded successfully!');
  });
  app.listen(port, () => {
    console.log(`Server running at http://localhost:${port}`);
  });
}

```

OUTPUT



2. Create a server that allows users to upload files and save them to the server's filesystem.

Program:

```

const http = require('http');
const url = require('url');

```

```

const server = http.createServer((req, res) => {
  const parsedUrl = url.parse(req.url, true);
  const path = parsedUrl.pathname;
  const trimmedPath = path.replace(/^\/+|\/+$/g, '');
  const method = req.method.toLowerCase();

```

```

const router = {
  'jagan': {
    'get': (req, res) => {
      res.writeHead(200, {'Content-Type': 'application/json'});
      res.end(JSON.stringify({message: 'jagan, World!'}));
    }
  },
  'users': {
    'get': (req, res) => {
      res.writeHead(200, {'Content-Type': 'application/json'});
      res.end(JSON.stringify({users: ['jagan', 'anand', 'kowsi']}));
    },
    'post': (req, res) => {
      let body = '';
      req.on('data', chunk => {

```

```

    body += chunk.toString();
  });
  req.on('end', () => {
    res.writeHead(201, {'Content-Type': 'application/json'});
    res.end(JSON.stringify({message: 'User created', data: JSON.parse(body)}});
  });
},
'put': (req, res) => {
  let body = "";
  req.on('data', chunk => {
    body += chunk.toString();
  });
  req.on('end', () => {
    res.writeHead(200, {'Content-Type': 'application/json'});
    res.end(JSON.stringify({message: 'User updated', data: JSON.parse(body)}});
  });
},
'delete': (req, res) => {
  res.writeHead(200, {'Content-Type': 'application/json'});
  res.end(JSON.stringify({message: 'User deleted'}));
}
}
};

```

```

if (router[trimmedPath] && router[trimmedPath][method]) {
  router[trimmedPath][method](req, res);
} else {

```

```

  res.writeHead(404, {'Content-Type': 'application/json'});
  res.end(JSON.stringify({message: 'Not Found'}));
}
});

```

```

const port = 3000;
server.listen(port, () => {
  console.log(`Server running at http://localhost:${port}`);
});

```

OUTPUT:

