

## Practical No. 8

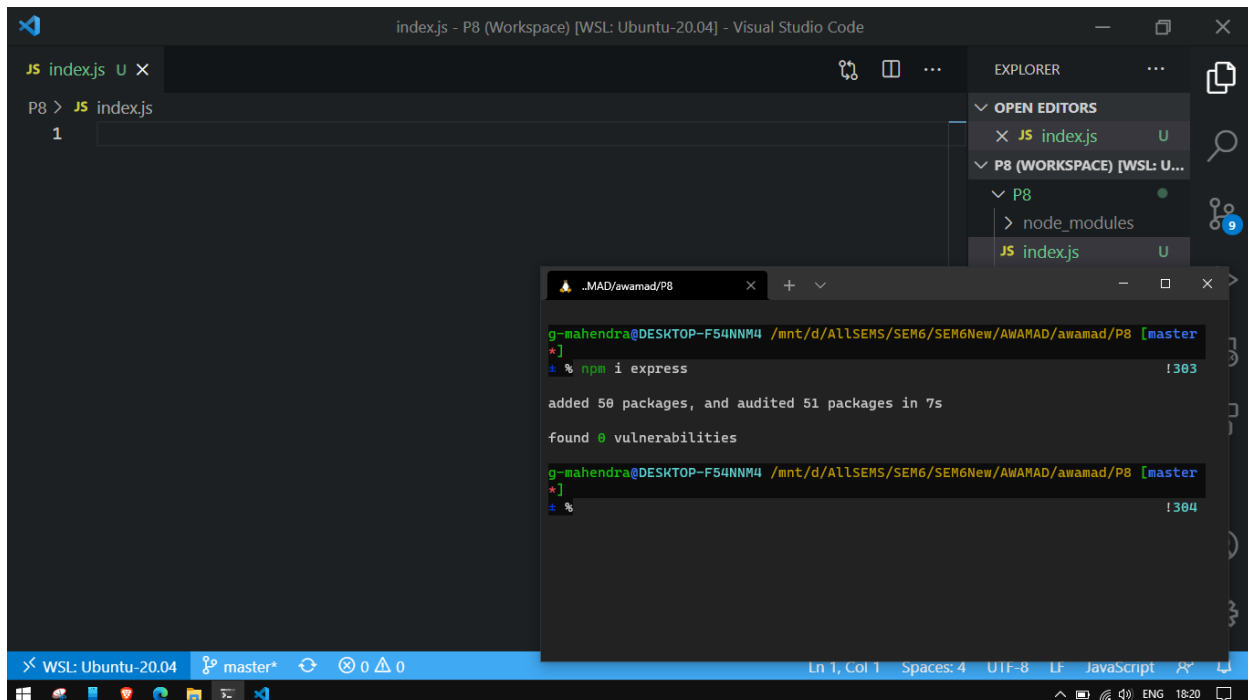
### Exam Seat No:

1. 2018BTECS00033 – Mahendra Bhimrao Garge
2. GitHub URL: <https://github.com/g-mahendra/awamad>

### Problem Statement 1:

1. Write an Express application that serves following types of files:
  - a. Image Files (.jpeg)
  - b. Audio Files (.mp3)
  - c. Document Files (.pdf)
2. Create separate webpages for each of the file types.
3. Use different routes for different pages.

### Screenshot 1:

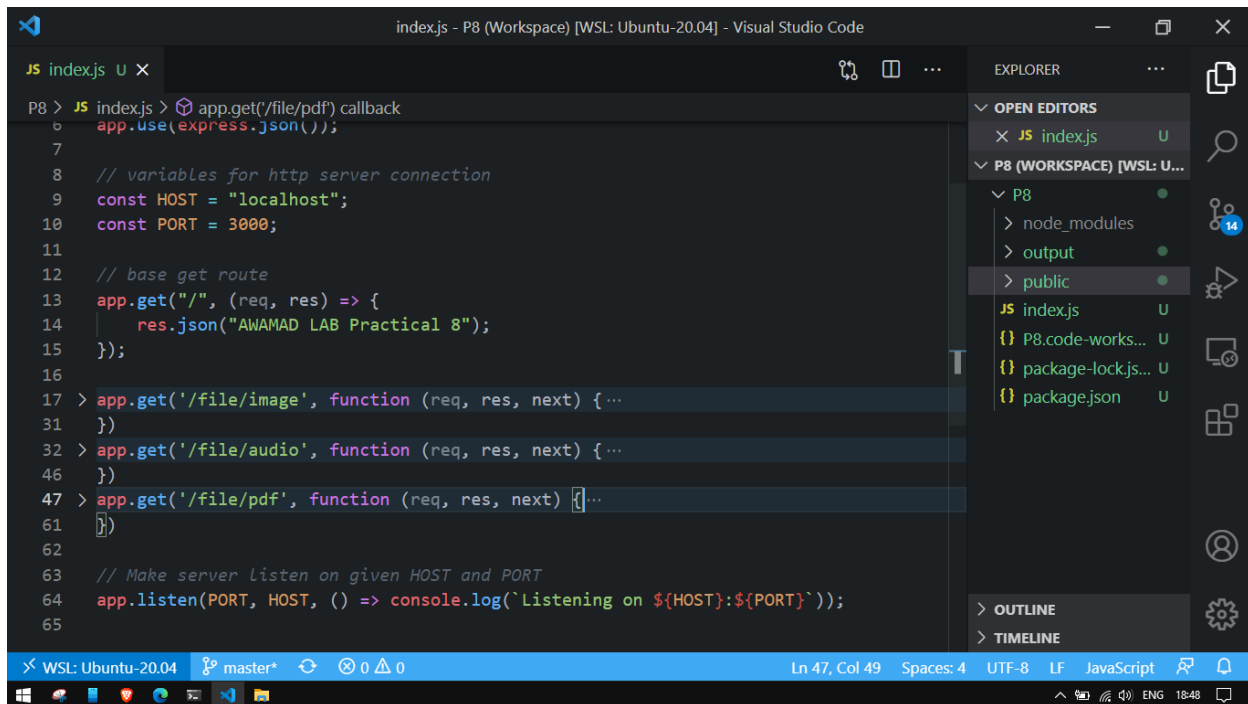


The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal displays the command `npm i express` being executed in a directory named `P8`. The output shows that 50 packages were added and 51 packages were audited in 7 seconds, with no vulnerabilities found. The status bar at the bottom indicates the file is `index.js` in the `P8` workspace, using the `master` branch.

```
index.js - P8 (Workspace) [WSL: Ubuntu-20.04] - Visual Studio Code
JS index.js U x
P8 > JS index.js
1
EXPLORED
OPEN EDITORS
JS index.js U
P8 (WORKSPACE) [WSL: U...
P8
node_modules
JS index.js U
g-mahendra@DESKTOP-F54NNM4 /mnt/d/ALLSEMS/SEM6/SEM6New/AWAMAD/awamad/P8 [master]
*]
+ % npm i express !303
added 50 packages, and audited 51 packages in 7s
found 0 vulnerabilities
g-mahendra@DESKTOP-F54NNM4 /mnt/d/ALLSEMS/SEM6/SEM6New/AWAMAD/awamad/P8 [master]
*]
+ % !304
WSL: Ubuntu-20.04 master* 0 0 0 Ln 1, Col 1 Spaces: 4 UTF-8 LF JavaScript
```

**Information 1:** Installing express with `npm install express`.

## Screenshot 2:



```
index.js - P8 (Workspace) [WSL: Ubuntu-20.04] - Visual Studio Code

JS index.js U x
P8 > JS index.js > app.get('/file/pdf') callback
6 app.use(express.json());
7
8 // variables for http server connection
9 const HOST = "localhost";
10 const PORT = 3000;
11
12 // base get route
13 app.get("/", (req, res) => {
14   res.json("AWAMAD LAB Practical 8");
15 });
16
17 > app.get('/file/image', function (req, res, next) { ...
31 })
32 > app.get('/file/audio', function (req, res, next) { ...
46 })
47 > app.get('/file/pdf', function (req, res, next) { ...
61 })
62
63 // Make server listen on given HOST and PORT
64 app.listen(PORT, HOST, () => console.log(`Listening on ${HOST}:${PORT}`));
65
```

EXPLORED

OPEN EDITORS

- JS index.js U

P8 (WORKSPACE) [WSL: U...

- P8
  - node\_modules
  - output
  - public
  - JS index.js U
  - P8.code-works... U
  - package-lock.js... U
  - package.json U

OUTLINE

TIMELINE

WSL: Ubuntu-20.04 master\* 0 0 0 Ln 47, Col 49 Spaces: 4 UTF-8 LF JavaScript

Information 2: Base route “/”.

## Screenshot 3:

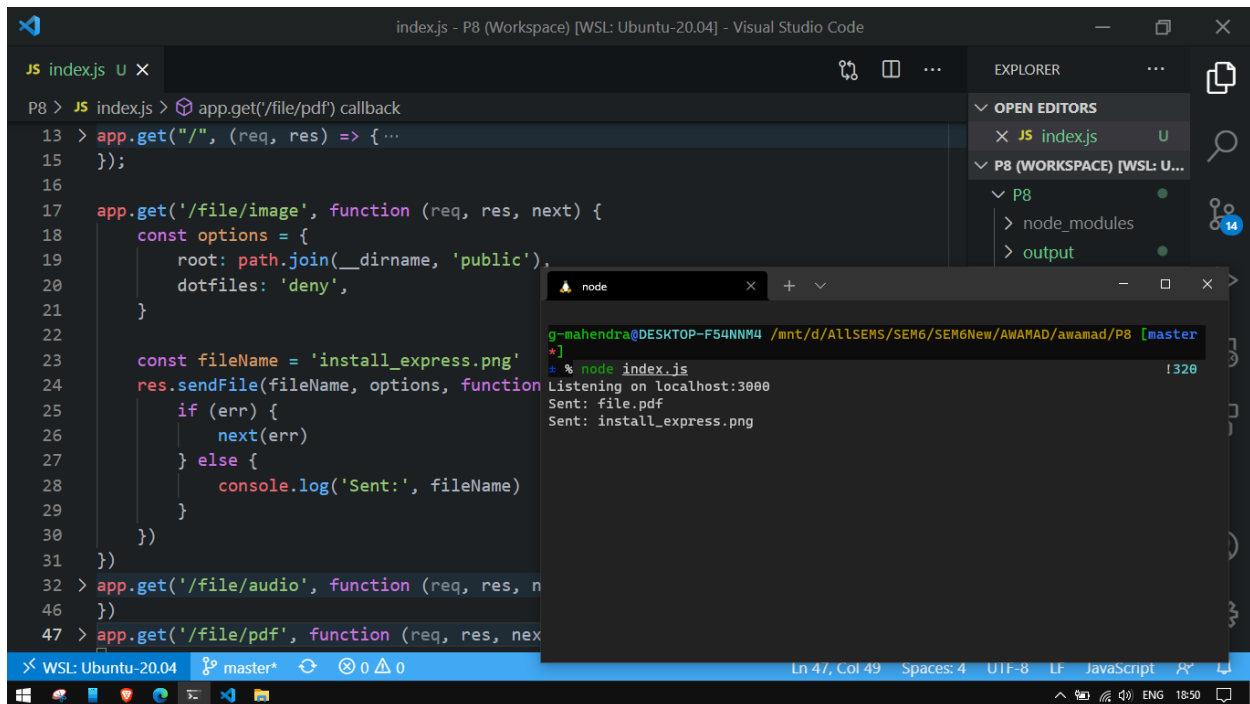


"AWAMAD LAB Practical 8"



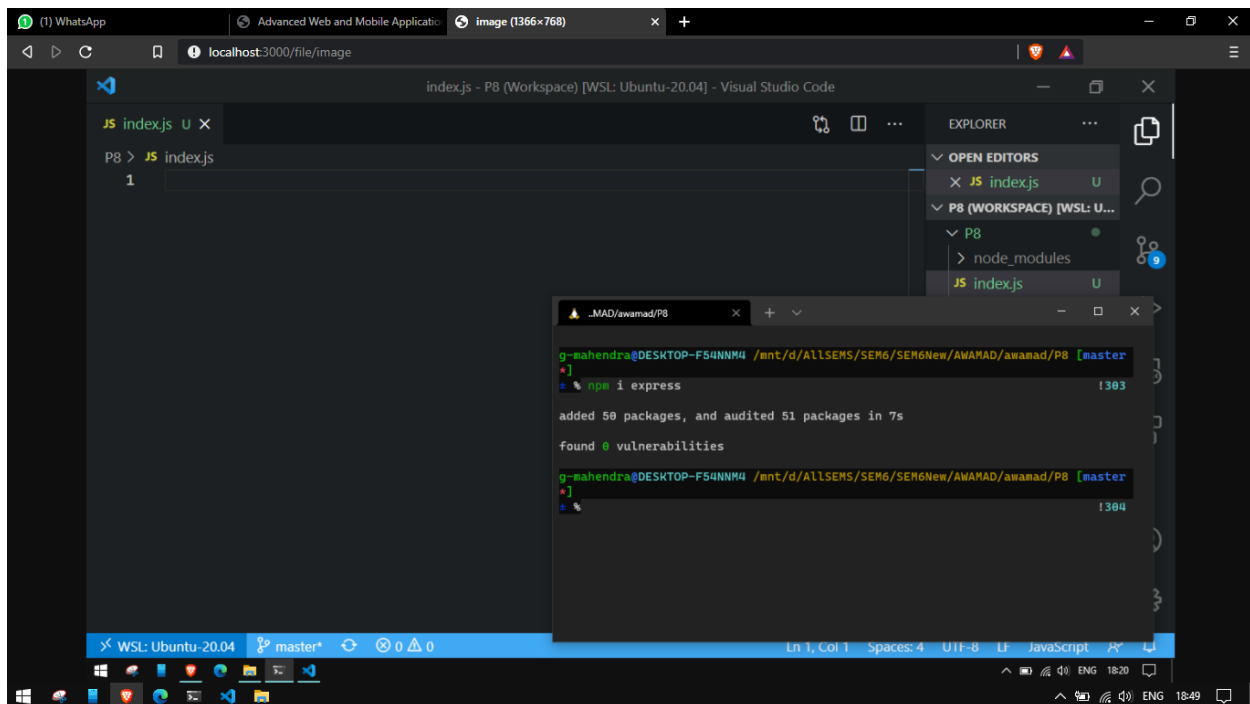
Information 3: Output of base route

### Screenshot 4:



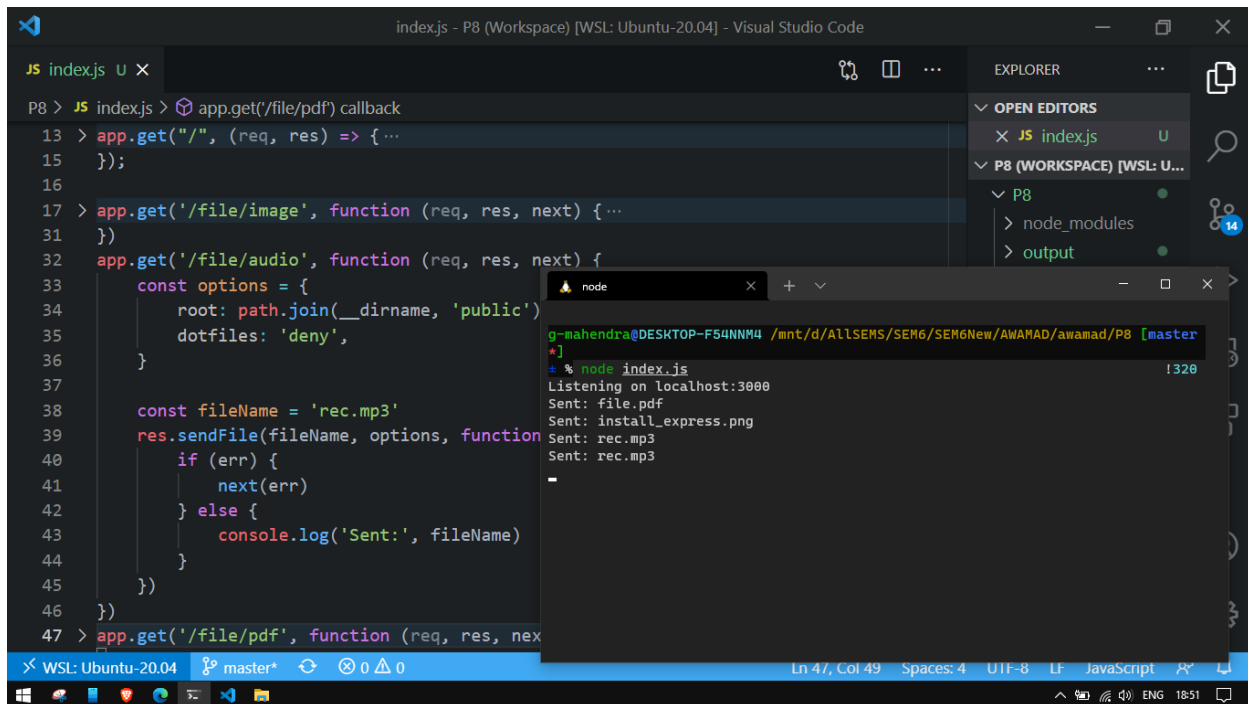
#### Information 4: Code to serve image

### Screenshot 5:



**Information 5:** Output of serving image on route “ /file/image”

### Screenshot 6:



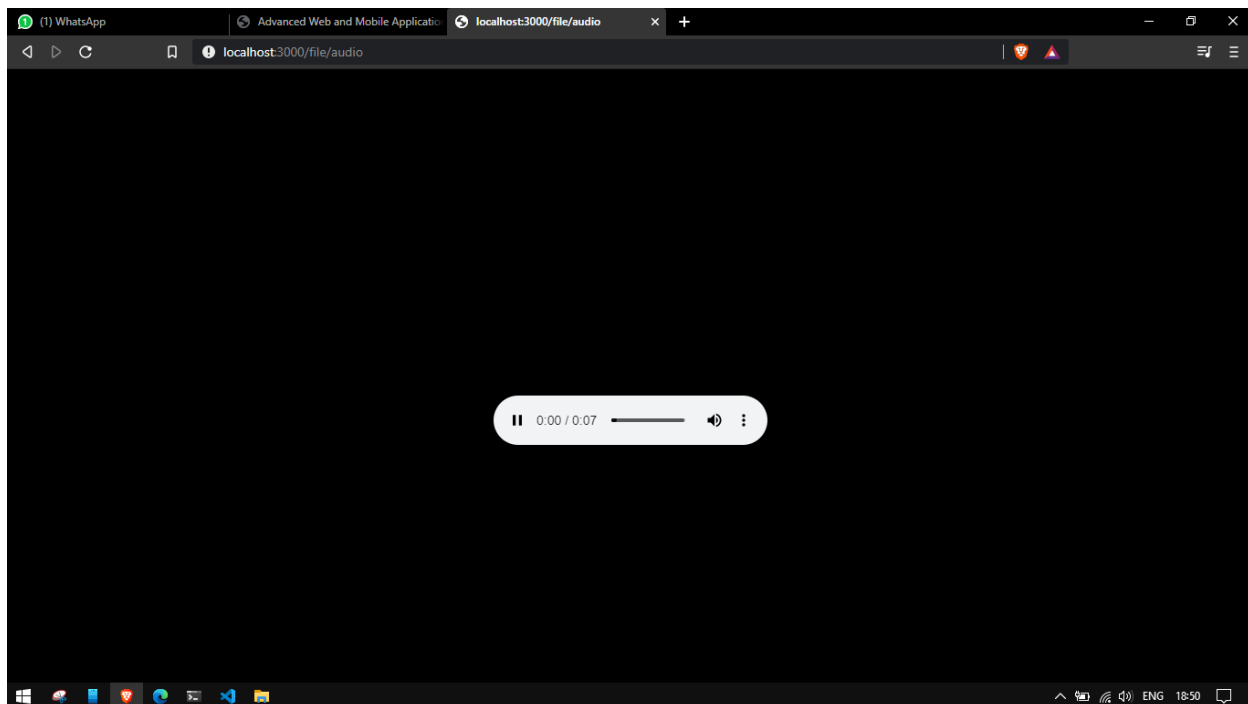
```
index.js - P8 (Workspace) [WSL: Ubuntu-20.04] - Visual Studio Code

JS index.js U x
P8 > JS index.js > app.get('/file/pdf') callback
13 > app.get('/', (req, res) => { ...
15 });
16
17 > app.get('/file/image', function (req, res, next) { ...
31 })
32 app.get('/file/audio', function (req, res, next) {
33   const options = {
34     root: path.join(__dirname, 'public')
35     dotfiles: 'deny',
36   }
37
38   const fileName = 'rec.mp3'
39   res.sendFile(fileName, options, function (err) {
40     if (err) {
41       next(err)
42     } else {
43       console.log('Sent:', fileName)
44     }
45   })
46 })
47 > app.get('/file/pdf', function (req, res, next) { ...

node
g-mahendra@DESKTOP-F54NNM4 /mnt/d/ALLSEMS/SEM6/SEM6New/AWAMAD/awamad/P8 [master]
* % node index.js
Listening on localhost:3000
Sent: file.pdf
Sent: install_express.png
Sent: rec.mp3
Sent: rec.mp3
-
```

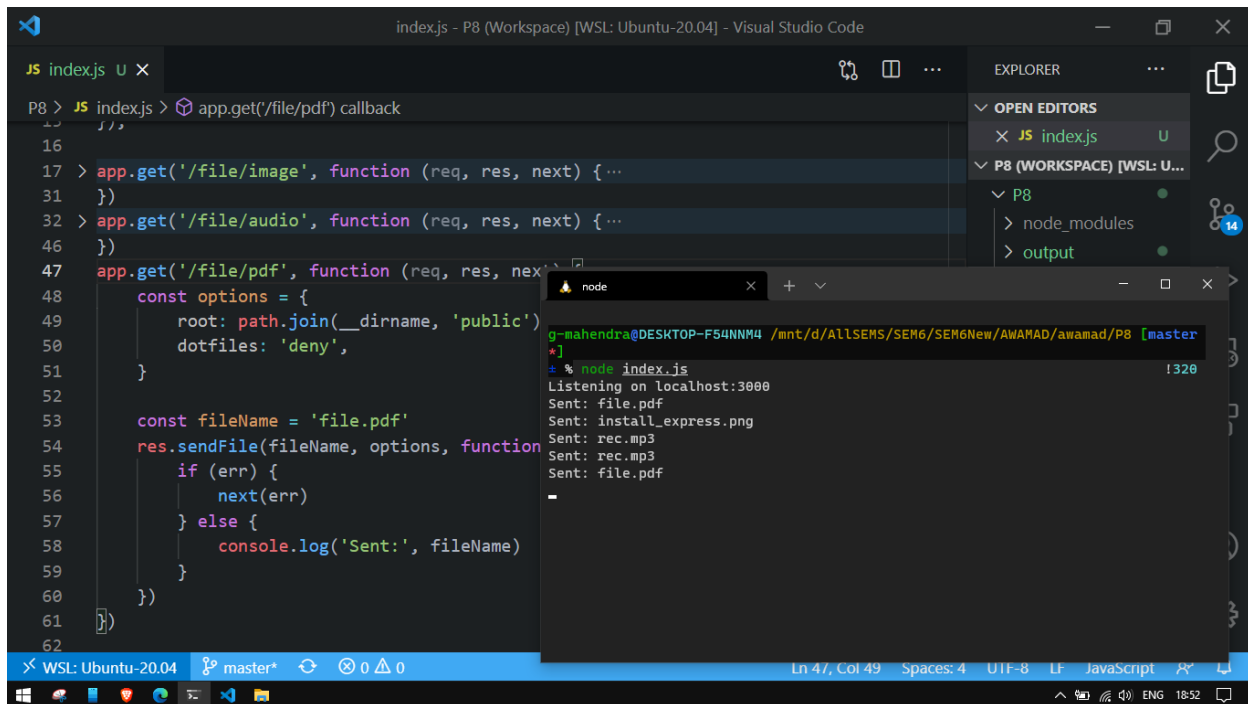
### Information 6: Send Audio code

### Screenshot 7:



### Information 7: Send audio output on route “/file/audio”

### Screenshot 8:



The screenshot shows the Visual Studio Code editor with a file named `index.js` open. The code defines an Express application with three routes: `/file/image`, `/file/audio`, and `/file/pdf`. The `/file/pdf` route uses `res.sendFile` to serve a file named `file.pdf` from the `public` directory. A terminal window is open, showing the command `node index.js` being executed, and the output indicating that the application is listening on `localhost:3000` and serving the `file.pdf` file.

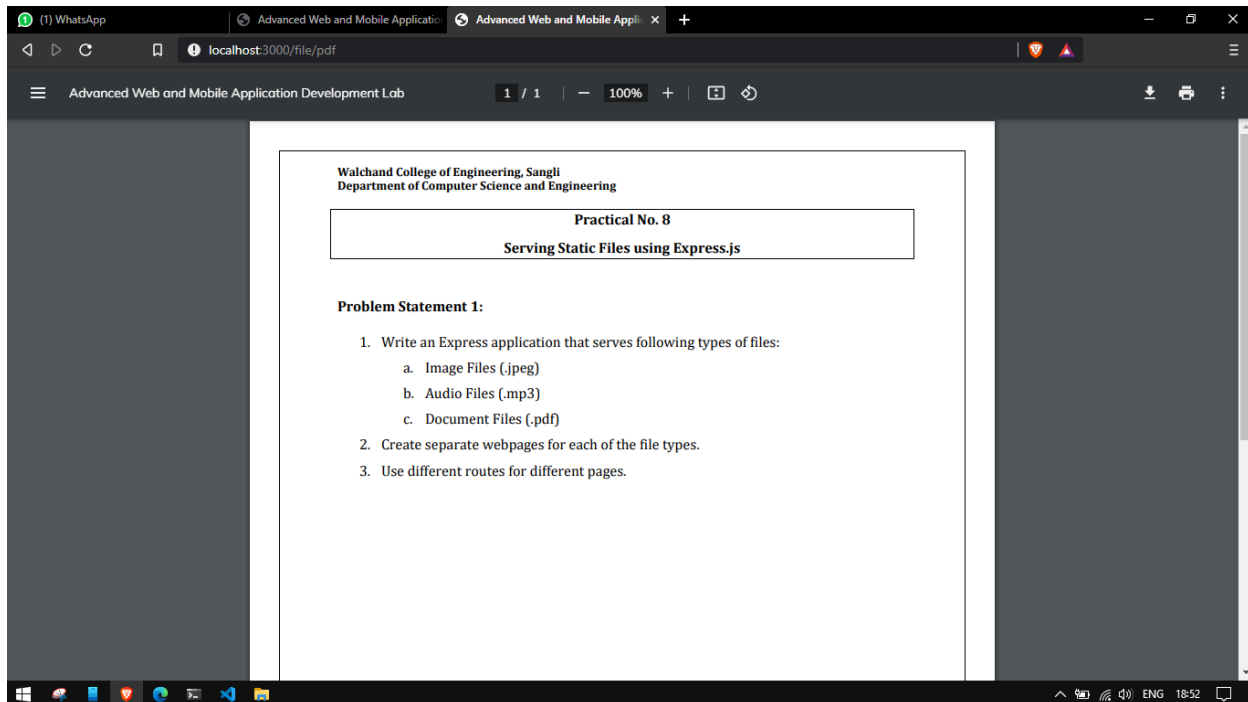
```
index.js - P8 (Workspace) [WSL: Ubuntu-20.04] - Visual Studio Code

P8 > JS index.js > app.get('/file/pdf') callback
16
17 > app.get('/file/image', function (req, res, next) { ...
31 })
32 > app.get('/file/audio', function (req, res, next) { ...
46 })
47 app.get('/file/pdf', function (req, res, next) {
48   const options = {
49     root: path.join(__dirname, 'public'),
50     dotfiles: 'deny',
51   }
52
53   const fileName = 'file.pdf'
54   res.sendFile(fileName, options, function (err) {
55     if (err) {
56       next(err)
57     } else {
58       console.log('Sent:', fileName)
59     }
60   })
61 })
62

node
g-mahendra@DESKTOP-F54NNM4 /mnt/d/ALLSEMS/SEM6/SEM6New/AWAMAD/awamad/P8 [master]
* % node index.js
Listening on localhost:3000
Sent: file.pdf
Sent: install_express.png
Sent: rec.mp3
Sent: rec.mp3
Sent: file.pdf
```

### Information 8: Code to send pdf

### Screenshot 9:



### Information 9: Send pdf output on route “/file/pdf”