

EX 8 WT

Part A: Logging using Winston in [Node.js](#)

[logger.js](#)

```
// logger.js
const { createLogger, format, transports } = require('winston');

const logger = createLogger({
  level: 'info',
  format: format.combine(
    format.timestamp(),
    format.simple()
  ),
  transports: [
    new transports.Console(),
    new transports.File({ filename: 'app.log' })
  ]
});

module.exports = logger;
```

[app.js](#)

```
// app.js
const express = require('express');
const logger = require('./logger');

const app = express();
const PORT = 3000;

app.get('/', (req, res) => {
  logger.info('GET request received at /');
  res.send('Hello World');
});

app.listen(PORT, () => {
  logger.info(`Server running on port ${PORT}`);
});
```

```
>npm init -y  
>npm install express winston
```

```
>node app.js
```

PART B — Logging Using Flask (Python)

```
D:\WT practice\Exp8\flask-logging-app>dir  
>pip install Flask  
>python app.py
```

[app.py](#)

```
from flask import Flask  
import logging  
  
app = Flask(__name__)  
  
# Configure Logging  
logging.basicConfig(  
    filename='app.log',  
    level=logging.INFO,  
    format='%(asctime)s:%(levelname)s:%(message)s'  
)  
  
@app.route('/')  
def home():  
    app.logger.info("Home route accessed")  
    return "Hello, Flask Logging!"  
  
@app.route('/error')  
def error():  
    try:  
        1 / 0  
    except ZeroDivisionError as e:  
        app.logger.error(f"Error occurred: {e}")  
        return "An error occurred"  
  
if __name__ == '__main__':  
    app.run(debug=True)
```