

## Practical No. 5

### Exam Seat No:

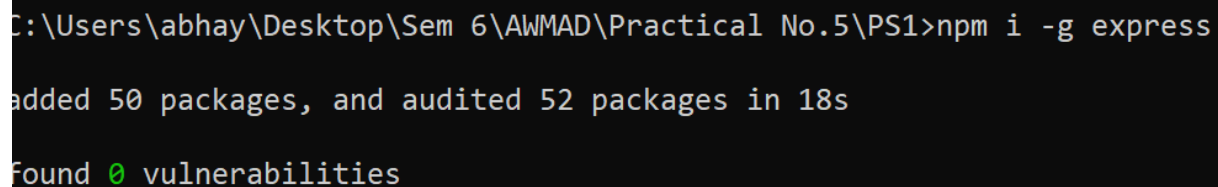
1. 2018BTECS00021- Abhay Shirale

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### Problem Statement 1:

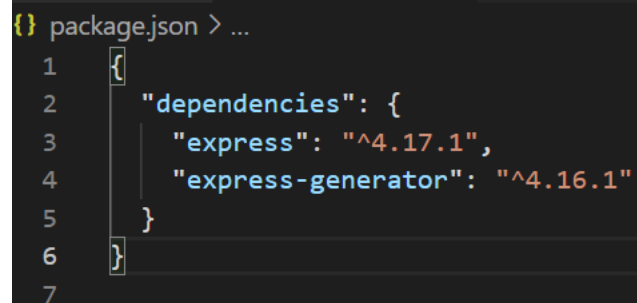
1. Install Express.js globally using node's NPM.
2. Verify and update package.json file for correct dependencies and other project information.

### Screenshots:



```
C:\Users\abhay\Desktop\Sem 6\AWMAD\Practical No.5\PS1>npm i -g express
added 50 packages, and audited 52 packages in 18s
found 0 vulnerabilities
```

### Express Installation



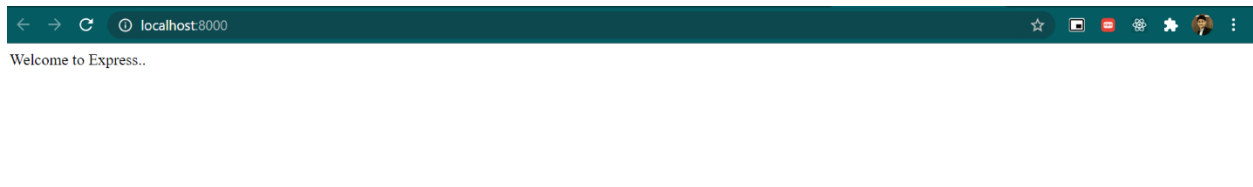
```
{
  "dependencies": {
    "express": "^4.17.1",
    "express-generator": "^4.16.1"
  }
}
```

### Package.json verification (+generator)

## Problem Statement 2:

1. Write an Express app for creating a HTTP server.
2. Configure IP address and port number.

## Screenshots:



## Running our Express App

A screenshot of a Visual Studio Code editor window. The editor has two tabs: 'index.js' and 'package.json'. The 'index.js' file contains the following code:

```
1 var express=require('express')
2 var app=express()
3 host='localhost'
4 port='8000'
5
6 app.get('/',(req,res)=>{
7   res.send("Welcome to Express..")
8 })
9
10
11 var server = app.listen(port,host, function () {
12   console.log("App listening at http://%s:%s", host, port)
13 })
```

The terminal at the bottom shows the command 'node index.js' being executed, and the output 'App listening at http://localhost:8000'.

## Code Snippet Of Express App

### Problem Statement 3:

1. Install Express Generator in working directory.
2. Create an Express App using express generator with default view Jade.(myapp2)
3. Create an Express App using express generator with pug view. (myapp)
4. Run HTTP server on localhost.

### Screenshots:

```
C:\WINDOWS\system32>express -h

Usage: express [options] [dir]

Options:

  --version          output the version number
  -e, --ejs          add ejs engine support
  --pug             add pug engine support
  --hbs             add handlebars engine support
  -H, --hogan        add hogan.js engine support
  -v, --view <engine> add view <engine> support (dust|ejs|hbs|hjs|jade|pug|twig|vash) (defaults to jade)
  --no-view         use static html instead of view engine
  -c, --css <engine> add stylesheet <engine> support (less|stylus|compass|sass) (defaults to plain css)
  --git            add .gitignore
  -f, --force       force on non-empty directory
  -h, --help       output usage information
```

Express help options using “express -h”

```
PS C:\Users\abhay\Desktop\Sem 6\AIMMAD\Practical No.5\PS3> npm i express-generator
npm WARN deprecated mkdirp@0.5.1: Legacy versions of mkdirp are no longer supported. Please update to mkdirp 1.x. (Note that the API surface has changed to use Promises in 1.x.)

added 10 packages, and audited 61 packages in 5s

3 low severity vulnerabilities

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.
```

Installing express generator globally

## 1. APP(myapp) with PUG

```
C:\Users\abhay\Desktop\Sem 6\AWMAD\Practical No.5\PS3>express --view=pug myapp

create : myapp\
create : myapp\public\
create : myapp\public\javascripts\
create : myapp\public\images\
create : myapp\public\stylesheets\
create : myapp\public\stylesheets\style.css
create : myapp\routes\
create : myapp\routes\index.js
create : myapp\routes\users.js
create : myapp\views\
create : myapp\views\error.pug
create : myapp\views\index.pug
create : myapp\views\layout.pug
create : myapp\app.js
create : myapp\package.json
create : myapp\bin\
create : myapp\bin\www

change directory:
> cd myapp

install dependencies:
> npm install

run the app:
> SET DEBUG=myapp:* & npm start
```

**Setting our app i.e. myapp view as “pug”**

```
C:\Users\abhay\Desktop\Sem 6\AWMAD\Practical No.5\PS3>cd myapp

C:\Users\abhay\Desktop\Sem 6\AWMAD\Practical No.5\PS3\myapp>npm install
npm WARN deprecated core-js@2.6.12: core-js@<3 is no longer maintained and not recommended for usage due to the number of issues. Please, upgrade your dependencies to the actual version of core-js@3.

added 122 packages, and audited 123 packages in 45s

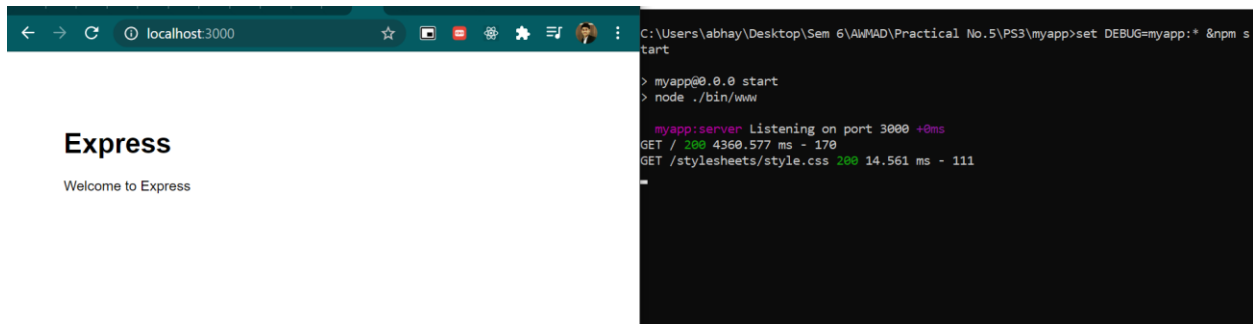
6 packages are looking for funding
  run `npm fund` for details

4 vulnerabilities (2 low, 2 high)

To address all issues, run:
  npm audit fix --force

Run `npm audit` for details.
```

### Installing required dependencies



### Myapp Application running on http://localhost:8000

## 2. APP(myapp2) with JED

```
C:\Users\abhay\Desktop\Sem 6\AWMAD\Practical No.5\PS3>express --view=jade myapp2
destination is not empty, continue? [y/N] y

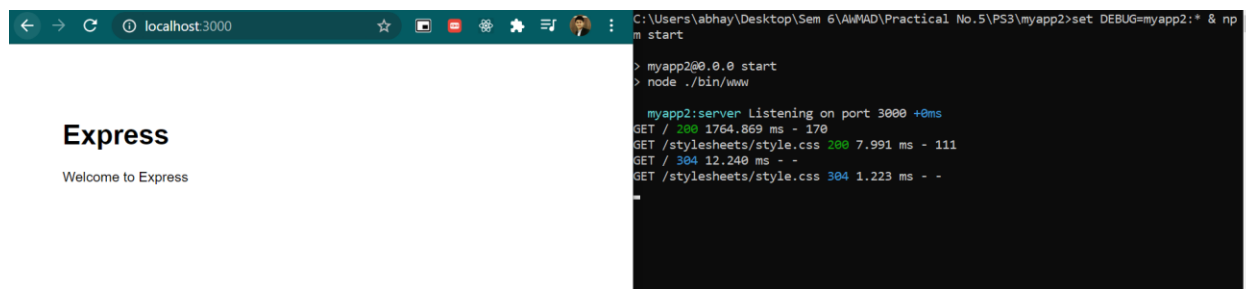
create : myapp2\
create : myapp2\public\
create : myapp2\public\javascripts\
create : myapp2\public\images\
create : myapp2\public\stylesheets\
create : myapp2\public\stylesheets\style.css
create : myapp2\routes\
create : myapp2\routes\index.js
create : myapp2\routes\users.js
create : myapp2\views\
create : myapp2\views\error.jade
create : myapp2\views\index.jade
create : myapp2\views\layout.jade
create : myapp2\app.js
create : myapp2\package.json
create : myapp2\bin\
create : myapp2\bin\www

change directory:
> cd myapp2

install dependencies:
> npm install

run the app:
> SET DEBUG=myapp2:* & npm start
```

Setting our app i.e. myapp2 view as “jade”



Myapp2 Application running on <http://localhost:8000>