**Practical 2:**

**Installation and Setup**

To install Express.js on a project, we will use the following commands

# Initialize NPM

npm init -y

# Install Express.js

npm install express

Task 1:

After installation, create an **index.js** file at the root of the project.

This file is the entry point of our Express.js application.

We first create an **app** instance using the **express** function.

Furthermore, we define a port and will start listening to it using the **app.listen()** method.

*const* express = *require*('express');

*const* app = express();

*const* port = 1337;

app.listen(port, () => {

*console*.log('server running');

});

o/p:

Node.js v20.10.0

PS C:\Users\komal.s\Desktop\Komal> node expbasic.js

server running

Task 2: Now we are adding some pages on server using get method(route handler)

//Importing express module

const express = require("express")

const app = express()

// Handling GET / request

app.get("/", (req, res, next) => {

res.send("This is the express server")

})

// Handling GET /hello request

app.get("/hello", (req, res, next) => {

res.send("This is the hello response");

})

// Server setup

app.listen(3003, () => {

console.log("Server is Running")

})

Task 3: How to link any file like html file into the express js web server

const express = require('express')

const app = express()

const port = 3089

app.get('/', (req, res) => {

res.sendFile(\_\_dirname + '/post.html')

})

app.get('/about', (req, res) => {

res.send('krishna here')

})

app.listen(port, () => {

console.log("rubb");

})

Task 4: Exploring middleware

<https://expressjs.com/en/resources/middleware.html>

Example of adding middleware on the web server: BodyParser

const express = require('express')

const app = express()

const port = 3089

var bodyParser = require("body-parser");

app.use(bodyParser.urlencoded({ extended: false }));

app.get('/', (req, res) => {

res.sendFile(\_\_dirname + '/post.html')

})

app.get('/about', (req, res) => {

res.send('krishna here')

})

app.post('/submit', function (req, res) {

var name = req.body.firstName + ' ' + req.body.lastName;

res.send(name + ' Submitted Successfully!');

});

app.listen(port, () => {

console.log("running");

})

Post.html

<!DOCTYPE html>

<html>

<head>

    <title></title>

</head>

<body>

    <form action="/submit" method="post">

        First Name: <input name="firstName" type="text" /> <br />

        Last Name: <input name="lastName" type="text" /> <br />

        <input type="submit" />

    </form>

</body>

</html>

Order of middleware:

var express = require('express');

var app = express();

//First middleware before response is sent

app.use(function(req, res, next){

console.log("Start");

next();

});

//Route handler

app.get('/', function(req, res, next){

res.send("Middle");

next();

});

app.use('/', function(req, res){

console.log('End');

});

app.listen(3000);