Aim:- Write a program which demonstrates Session handling in Express JS.

Program code:-
Index.js

```
import express from "express"
import cors from "cors"
import mongoose from "mongoose"
const app = express()
app.use(express.json())
app.use(express.urlencoded())
app.use(cors())
mongoose.connect("mongodb+srv://yatin:yatin123@cluster0.c4q2gak.mongodb.net/?retry
Writes=true&w=majority", {
    useNewUrlParser: true,
    useUnifiedTopology: true
}, () => {
    console.log("DB connected")
})
const userSchema = new mongoose.Schema({
    name: String,
    email: String,
    password: String
})
const adminSchema = new mongoose.Schema({
    name: String,
    email: String,
    password: String
})
const User = new mongoose.model("User", userSchema)
const Admin= new mongoose.model("Admin",adminSchema)
app.post("/login", (req, res)=> {
    const { email, password} = req.body
    User.findOne({ email: email}, (err, user) => {
        if(user){
            if(password === user.password ) {
                res.send({message: "Login Successfull", user: user})
            } else {
                res.send({ message: "Password didn't match"})
            }
        } else {
            res.send({message: "User not registered"})
        }
    })
})
app.listen(9002,() => {
    console.log("BE started at port 9002")
})
```

Login.js
```
import React, {useState} from "react"
import "./login.css"
import axios from "axios"
import { useHistory } from "react-router-dom"

const Login = ({ setLoginUser}) => {
   const history = useHistory()
   const [ user, setUser] = useState({
      email:"",
      password:""
   })
   const handleChange = e => {
      const { name, value } = e.target
      setUser({
         ...user,
         [name]: value
      })
   }
   const login = () => {
      axios.post("http://localhost:9002/login", user)
      .then(res => {
         alert(res.data.message)
         setLoginUser(res.data.user)
         history.push("/homepage")
      })
   }
   return (
      <div className="login">
         <h1>Student Login</h1>
         <input type="text" name="email" value={user.email} onChange={handleChange}
placeholder="Enter your Email"></input>
         <input type="password" name="password" value={user.password}
onChange={handleChange}  placeholder="Enter your Password" ></input>
         <div className="button" onClick={login}>Submit</div>
         <div>or</div>
         <div className="button" onClick={() => history.push("/register")}>Student
Register</div>
         <div>or</div>
         <div className="button" onClick={() => history.push("/mainp")}>Main Menu</div>
      </div>
   )
}
export default Login
```
App.js
```
import './App.css'
```

```jsx
import Homepage from "./components/homepage/homepage"
import Login from "./components/login/login"
import Register from "./components/register/register"
import Adminl from "./components/adminl/adminl"
import Adminr from "./components/adminr/adminr"
import Adminop from "./components/adminop/adminop"
import { BrowserRouter as Router, Switch, Route } from "react-router-dom";
import { useState } from 'react';
import Mainp from './components/mainp/mainp'
function App() {
  const [ admin, setAdminUser] = useState({})
  const [ user, setLoginUser] = useState({})
  return (
    <div className="App">
      <Router>
        <Switch>
        <Route exact path="/">
          <Mainp/>
        </Route>
        <Route path="/mainp">
          <Mainp/>
        </Route>
        <Route exact path="/homepage">
          {
            user && user._id ? <Homepage setLoginUser={setLoginUser} /> : <Login
setLoginUser={setLoginUser}/>
          }
        </Route>
        <Route exact path="/adminop">
          {
            admin && admin._id ? <Adminop setAdminUser={setAdminUser} /> : <Adminl
setAdminUser={setAdminUser}/>
          }
        </Route>
        <Route path="/login">
          <Login setLoginUser={setLoginUser}/>
        </Route>
        <Route path="/register">
          <Register />
        </Route>
        <Route path="/adminl">
          <Adminl setAdminUser={setAdminUser}/>
        </Route>
        <Route path="/adminr">
          <Adminr />
        </Route>
      </Switch>
```
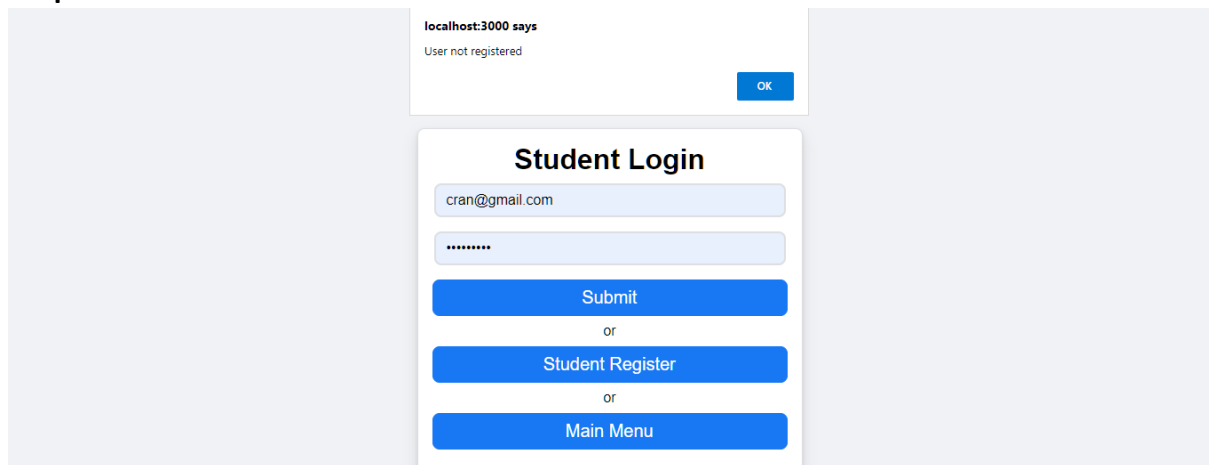
```
        </Router>
      </div>
  );
}
export default App;
```

Output:-

Conclusion:- Successfully implemented the express for session handling in node js