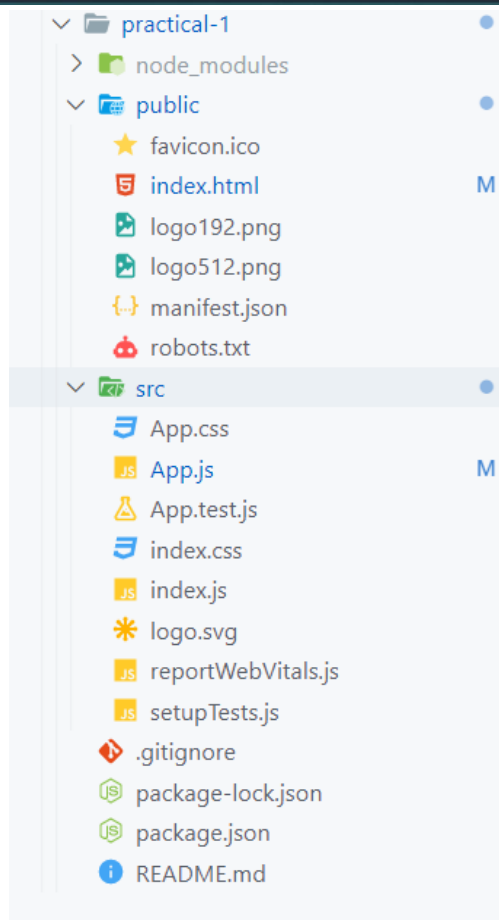
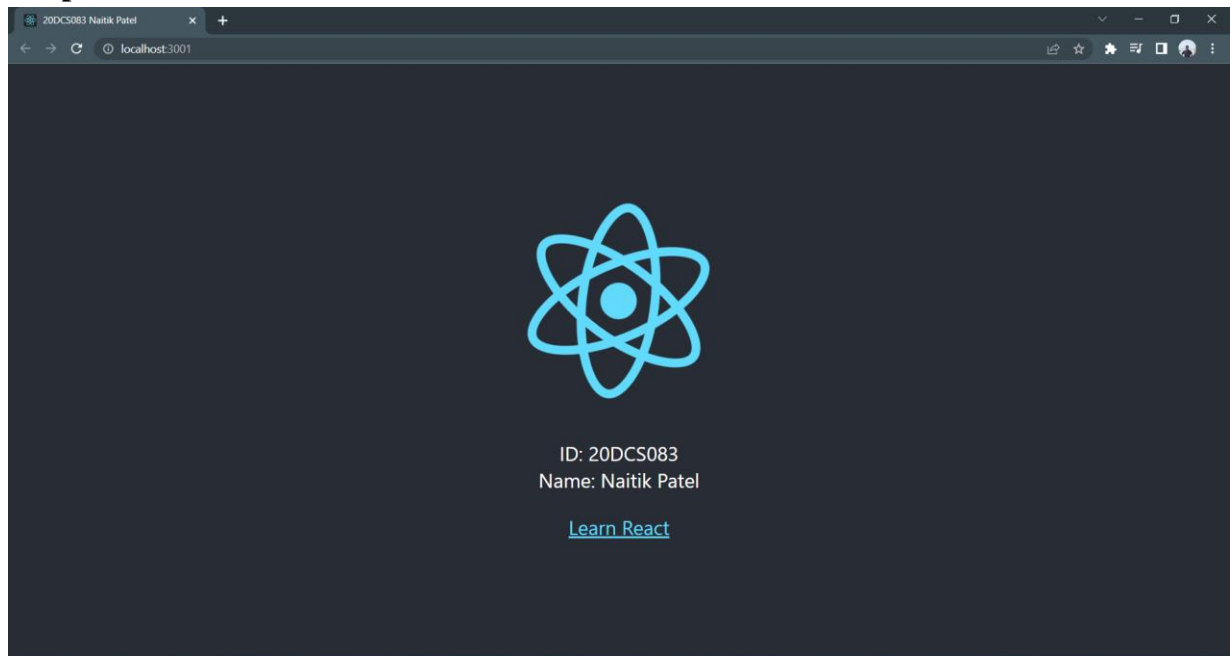


## PRACTICAL 1

<b>Aim</b>	<b>Install &amp; Configure Visual Studio Code as an IDE, setup an environment for React by downloading Node.js and install React framework along with its packages. Understand the folder structure used by React and develop a “Hello World Application”.</b>
	<p><b>Source code of App.js.</b></p> <pre>import logo from './logo.svg'; import './App.css';  function App() {   return (     &lt;div className="App"&gt;       &lt;header className="App-header"&gt;         &lt;img src={logo} className="App-logo" alt="logo" /&gt;         &lt;p&gt;           ID: 20DCS083 &lt;br/&gt;           Name: Naitik Patel         &lt;/p&gt;         &lt;a           className="App-link"           href="https://reactjs.org"           target="_blank"           rel="noopener noreferrer"         &gt;           Learn React         &lt;/a&gt;       &lt;/header&gt;     &lt;/div&gt;   ); }  export default App;</pre>

**Output Screenshot:**

**PRACTICAL 2**

<b>Aim</b>	<b>Implement React Routing for navigating 5 different webpages. Design a responsive navbar in ReactJS by using media queries, Material-UI/React Bootstrap.</b>
	<p><b>Source code of App.js:</b></p> <pre> import './App.css'; import DenseAppBar from './DenseAppBar'; import { Route } from 'react-router-dom'; import { Routes } from 'react-router'; import Home from './comp/Home'; import Contact from './comp/Contact'; import About from './comp/About'; function App() {   return (     &lt;&gt;     &lt;div className='Container'&gt;       &lt;DenseAppBar /&gt;       &lt;Routes&gt;         &lt;Route path="/" element={&lt;Home/&gt;}/&gt;         &lt;Route path="/Home" element={&lt;Home/&gt;}/&gt;         &lt;Route path="/About" element={&lt;About/&gt;}/&gt;         &lt;Route path="/Contact" element={&lt;Contact/&gt;}/&gt;       &lt;/Routes&gt;     &lt;/div&gt;   &lt;/&gt;   ); }  export default App; </pre>

**Source code of Home.js and Home.css:**

```
import React from "react";
import "../App.css";

function Home() {
  return (
    <div className="container">
      <h1 style={{ color: "white" }}>Home Page</h1>
    </div>
  );
}

export default Home;
```

**Source code of About.js and About.css:**

```
import React from 'react'

function About() {
  return (
    <div className="container">
      <h1 style={{ color: "white" }}>About Page</h1>
    </div>
  )
}

export default About
```

**Source code of Contact.js and Contact.css:**

```
import React from 'react'

function Contact() {
  return (
    <div className="container">
      <h1 style={{ color: "white" }}>Contact Page</h1>
    </div>
  )
}

export default Contact
```

**Source code of Navbar.js and Navbar.css:**

```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import Menu from '@mui/material/Menu';
import MenuIcon from '@mui/icons-material/Menu';
import Container from '@mui/material/Container';
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import Tooltip from '@mui/material/Tooltip';
import MenuItem from '@mui/material/MenuItem';
import AdbIcon from '@mui/icons-material/Adb';
import { Link } from 'react-router-dom';
import './App.css';
const pages = ['Home', 'About', 'Contact'];
const settings = ['Profile', 'Account', 'Dashboard', 'Logout'];

const ResponsiveAppBar = () => {
  const [anchorElNav, setAnchorElNav] = React.useState(null);
  const [anchorElUser, setAnchorElUser] = React.useState(null);

  const handleOpenNavMenu = (event) => {
    setAnchorElNav(event.currentTarget);
  };
  const handleOpenUserMenu = (event) => {
    setAnchorElUser(event.currentTarget);
  };

  const handleCloseNavMenu = () => {
    setAnchorElNav(null);
  };

  const handleCloseUserMenu = () => {
    setAnchorElUser(null);
  };

  return (
    <AppBar className='navbar' color='transparent' position="static">
      <Container maxWidth="xl">
        <Toolbar disableGutters>
```

```

1 <AdbIcon sx={{ display: { xs: 'none', md: 'flex',color:'white' }, mr:
  <Typography
    variant="h6"
    nowrap
    component="a"
    href="/"
    sx={{
      mr: 2,
      display: { xs: 'none', md: 'flex' },
      fontFamily: 'monospace',
      fontWeight: 700,
      letterSpacing: '.3rem',
      color: 'white',
      textDecoration: 'none',
    }}
  >
    LOGO
  </Typography>

  <Box sx={{ flexGrow: 1, display: { xs: 'flex', md: 'none' } }}>
    <IconButton
      size="large"
      aria-label="account of current user"
      aria-controls="menu-appbar"
      aria-haspopup="true"
      onClick={handleOpenNavMenu}
      color="inherit"
    >
      <MenuIcon />
    </IconButton>
    <Menu
      id="menu-appbar"
      anchorEl={anchorElNav}
      anchorOrigin={{
        vertical: 'bottom',
        horizontal: 'left',
      }}
      keepMounted
      transformOrigin={{
        vertical: 'top',
        horizontal: 'left',
      }}
      open={Boolean(anchorElNav)}

```

```

        onClose={handleCloseNavMenu}
        sx={{
          display: { xs: 'block', md: 'none' },
        }}
      >
      {pages.map((page) => (
        <MenuItem key={page} onClick={handleCloseNavMenu}>
          <Typography textAlign="center" >
            <Link style={{textDecoration:"none",color:"black"}}
to={`/${page}`}>
              {page}
            </Link>
          </Typography>
        </MenuItem>
      ))}
    </Menu>
  </Box>
  <AdbIcon sx={{ display: { xs: 'flex', md: 'none' }, mr: 1 }} />
  <Typography
    variant="h5"
    nowrap
    component="a"
    href=""
    sx={{
      mr: 2,
      display: { xs: 'flex', md: 'none' },
      flexGrow: 1,
      fontFamily: 'monospace',
      fontWeight: 700,
      letterSpacing: '.3rem',
      color: 'inherit',
      textDecoration: 'none',
    }}
  >
    LOGO
  </Typography>
  <Box sx={{ flexGrow: 1, display: { xs: 'none', md: 'flex' } }}>
    {pages.map((page) => (
      <Button
        key={page}
        onClick={handleCloseNavMenu}
        sx={{ my: 2, color: 'white', display: 'block' }}
      >

```

```

        <Link style={{textDecoration:"none",color:"white"}}
to={`/${page}`}>
            {page}
        </Link>
    </Button>
    )})
</Box>

<Box color="black" sx={{ flexGrow: 0 }}>
    <Tooltip title="Open settings">
        <IconButton onClick={handleOpenUserMenu} sx={{ p: 0 }}>
            <Avatar alt="Remy Sharp" src="/static/images/avatar/2.jpg" />
        </IconButton>
    </Tooltip>
    <Menu
        sx={{ mt: '45px' }}
        id="menu-appbar"
        anchorEl={anchorElUser}
        anchorOrigin={{
            vertical: 'top',
            horizontal: 'right',
        }}
        keepMounted
        transformOrigin={{
            vertical: 'top',
            horizontal: 'right',
        }}
        open={Boolean(anchorElUser)}
        onClose={handleCloseUserMenu}
    >
        {settings.map((setting) => (
            <MenuItem key={setting} onClick={handleCloseUserMenu}>
                <Typography textAlign="center">{setting}</Typography>
            </MenuItem>
        ))}
    </Menu>
</Box>
</Toolbar>
</Container>
</AppBar>
);
};
export default ResponsiveAppBar;

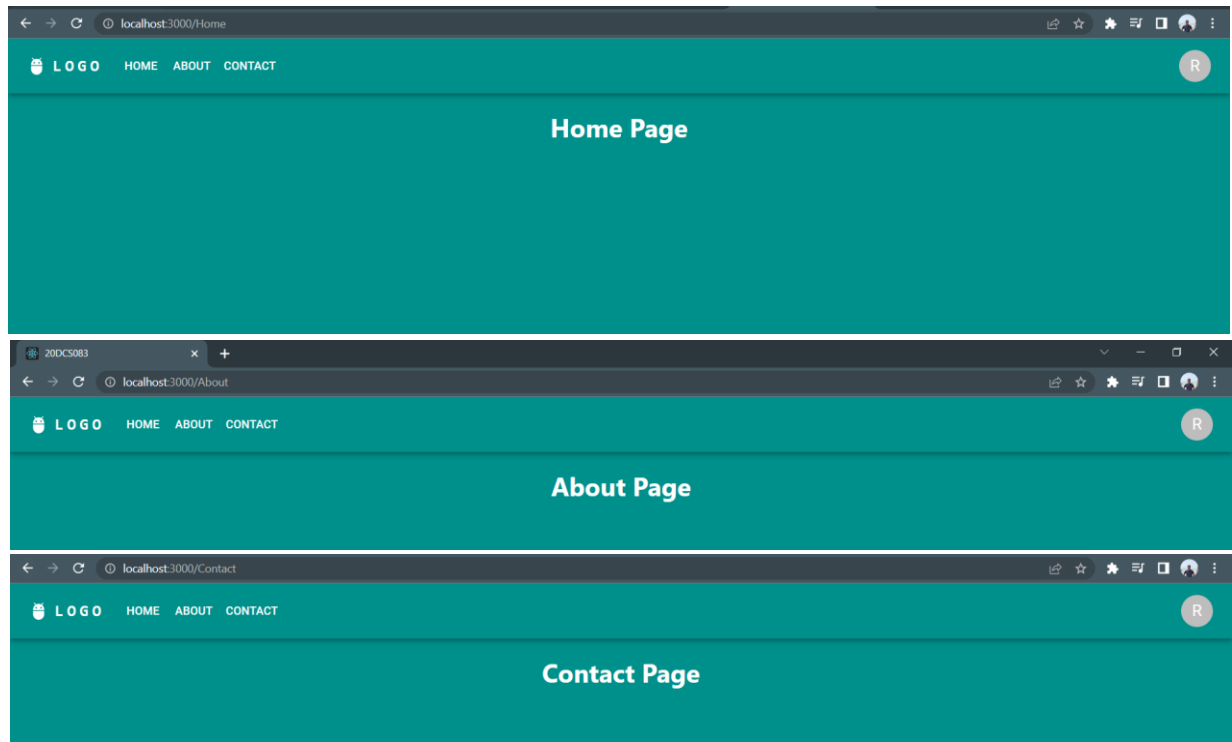
```



**Source code App.css:**

```
@import
url('https://fonts.googleapis.com/css2?family=Merriweather+Sans:wght@500;800&di
splay=swap');
body,html{
    height: 100%;
}
.App {
    text-align: center;
}
.Container{

    text-align: center;
}
body{
    background:rgb(0, 144, 139);
    background-attachment: fixed;
}
```

**Output Screenshot:**

**Folder Structure:**