

Tugas 2 Lab Pemrograman Perangkat Bergerak

RFC dan RCC

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Soal dan Jawaban!

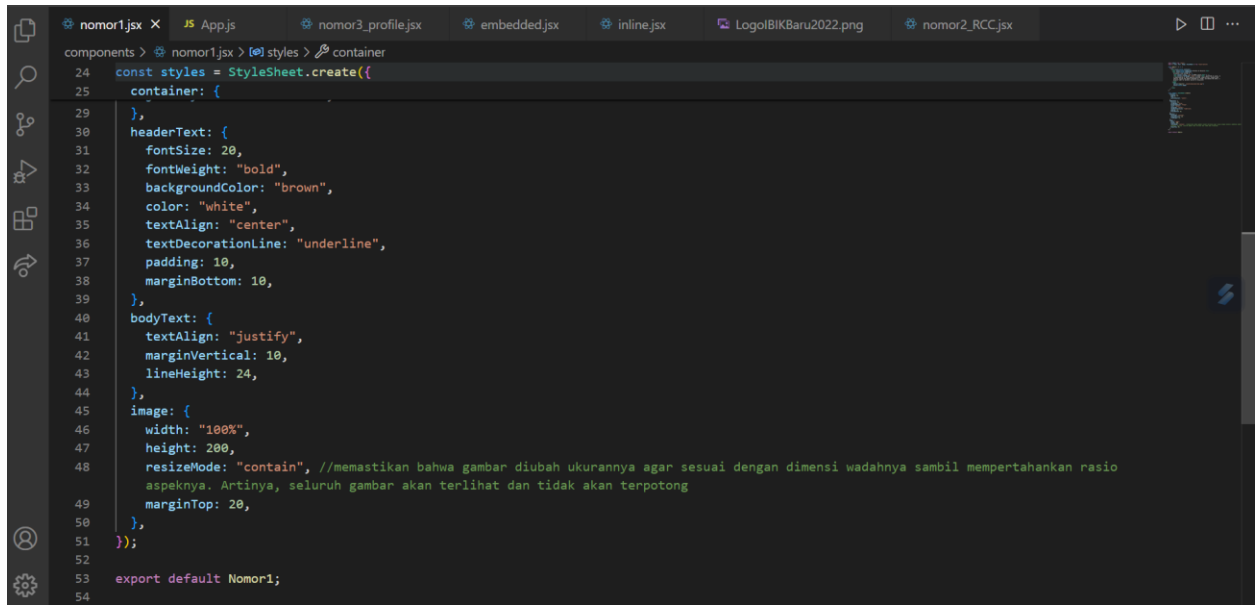
1. Buatlah script untuk memposisikan node-node berada di tengah-tengah layar monitor seperti berikut



Jawaban:

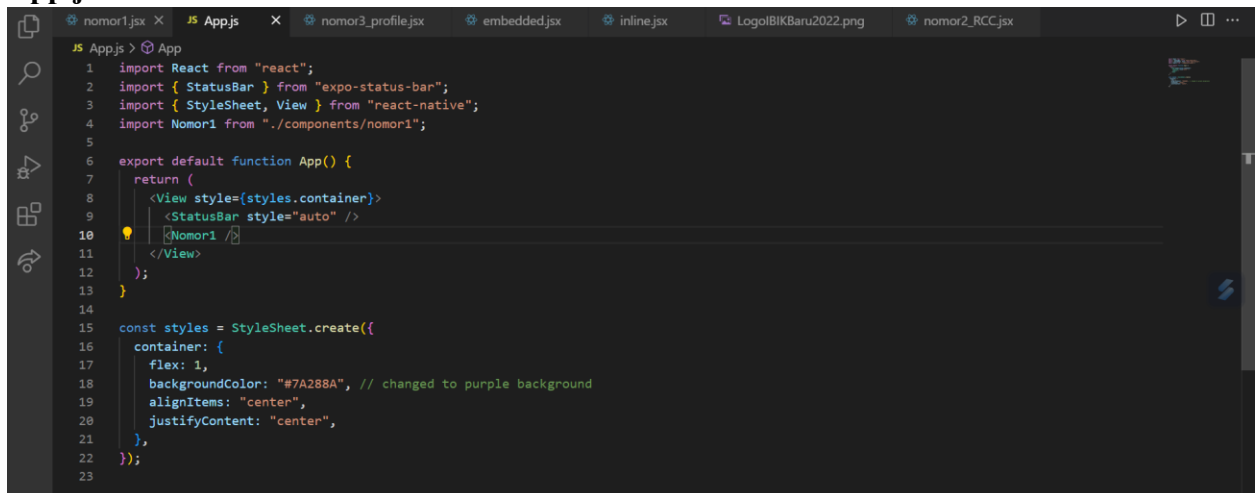
Source Code:

```
File Edit Selection View Go Run ... my-app [Administrator]
nomor1.jsx X JS App.js nomor3_profile.jsx embedded.jsx inline.jsx LogoBIKBaru2022.png nomor2_RCC.jsx
components > nomor1.jsx > [0] Nomor1
1 import React from "react";
2 import { View, Text, Image, StyleSheet } from "react-native";
3
4 const Nomor1 = () => {
5   return (
6     <View style={styles.container}>
7       <Text style={styles.headerText}>History of Bicycle</Text>
8       <Text style={styles.bodyText}>
9         A bicycle, also called a
10        <Text style={{ color: "red" }}>pedal cycle</Text>," "
11        <Text style={{ fontWeight: "bold" }}>bike</Text>, push-bike or cycle, is
12        a human-powered or motor-powered assisted, pedal-driven, single-track
13        vehicle, having two wheels attached to a frame, one behind the other. A
14        bicycle rider is called a cyclist or bicyclist.
15      </Text>
16      <Image
17        source={require("../assets/bussiness-man.png")}
18        style={styles.image}
19      />
20    </View>
21  );
22 };
23
24 const styles = StyleSheet.create({
25   container: {
26     padding: 90,
27     flex: 1,
28     justifyContent: "center",
29   },
30 });
```



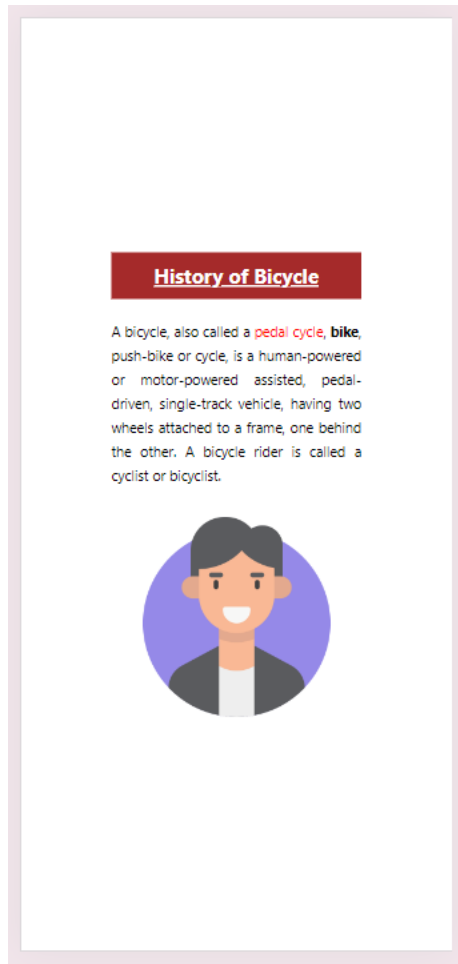
```
24 const styles = StyleSheet.create({
25   container: {
26     },
27   headerText: {
28     fontSize: 20,
29     fontWeight: "bold",
30     backgroundColor: "brown",
31     color: "white",
32     textAlign: "center",
33     textDecoratationLine: "underline",
34     padding: 10,
35     marginBottom: 10,
36   },
37   bodyText: {
38     textAlign: "justify",
39     marginVertical: 10,
40     lineHeight: 24,
41   },
42   image: {
43     width: "100%",
44     height: 200,
45     resizeMode: "contain", //memastikan bahwa gambar diubah ukurannya agar sesuai dengan dimensi wadahnya sambil mempertahankan rasio
46     //aspeknya. Artinya, seluruh gambar akan terlihat dan tidak akan terpotong
47     marginTop: 20,
48   },
49 });
50
51 export default Nomor1;
```

App.js:



```
1 import React from "react";
2 import { StatusBar } from "expo-status-bar";
3 import { StyleSheet, View } from "react-native";
4 import Nomor1 from "../components/nomor1";
5
6 export default function App() {
7   return (
8     <View style={styles.container}>
9       <StatusBar style="auto" />
10      <Nomor1 />
11    </View>
12  );
13 }
14
15 const styles = StyleSheet.create({
16   container: {
17     flex: 1,
18     backgroundColor: "#7A288A", // changed to purple background
19     alignItems: "center",
20     justifyContent: "center",
21   },
22 });
```

Hasil Output:



2. Dalam membuat script nomor 1, buatlah sebuah RCC sebagai titik awal aplikasi dan untuk node node nya menggunakan RFC (kotak tulisan history bicycle & kotak gambar). Panggil kedua RFC tersebut sebagai bagian dari node RCC yang akan anda buat.

Jawaban:

Source Code:

```

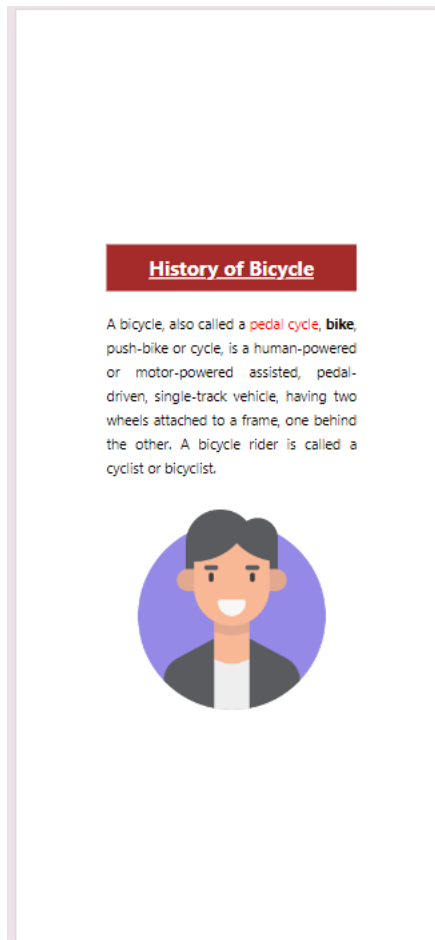
components > nomor2_RCC.jsx > styles > container
1  import React, { Component } from "react";
2  import { View, StyleSheet } from "react-native";
3  import Nomor1 from "../nomor1";
4
5  class Nomor2_RCC extends Component {
6    render() {
7      return (
8        <View style={styles.container}>
9          <Nomor1 />
10        </View>
11      );
12    }
13  }
14
15  const styles = StyleSheet.create({
16    container: {
17      flex: 1,
18      backgroundColor: "#fff",
19      alignItems: "center",
20      justifyContent: "center",
21    },
22  });
23
24  export default Nomor2_RCC;
25

```

App.js:

```
JS App.js > App
1 import React from "react";
2 import { StatusBar } from "expo-status-bar";
3 import { StyleSheet, View } from "react-native";
4 import Nomor1 from "../components/nomor1";
5 import Nomor2_RCC from "../components/nomor2_RCC";
6
7 export default function App() {
8   return (
9     <View style={styles.container}>
10      <StatusBar style="auto" />
11      <Nomor2_RCC />
12    </View>
13  );
14 }
15
16 const styles = StyleSheet.create({
17   container: {
18     flex: 1,
19     // backgroundColor: "#7A288A", // changed to purple background
20     backgroundColor: "white",
21     alignItems: "center",
22     justifyContent: "center",
23   },
24 });
25
```

Hasil Output:

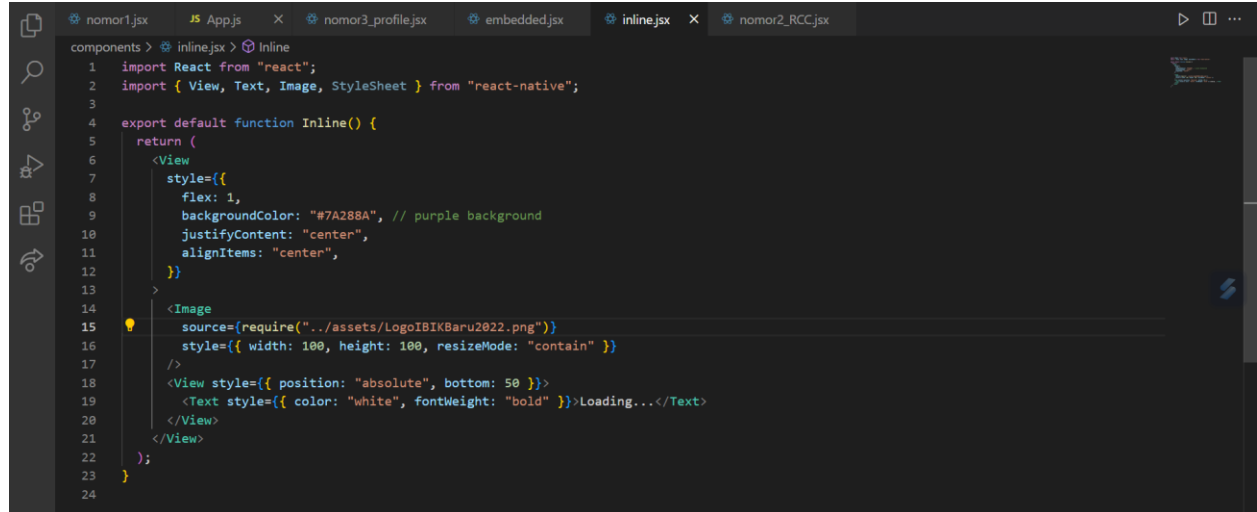


3. Buatlah sebuah splash screen sederhana seperti gambar dibawah ini dan buatlah dengan mengguakan StyleSheet Inline dan Embedded.

Jawaban

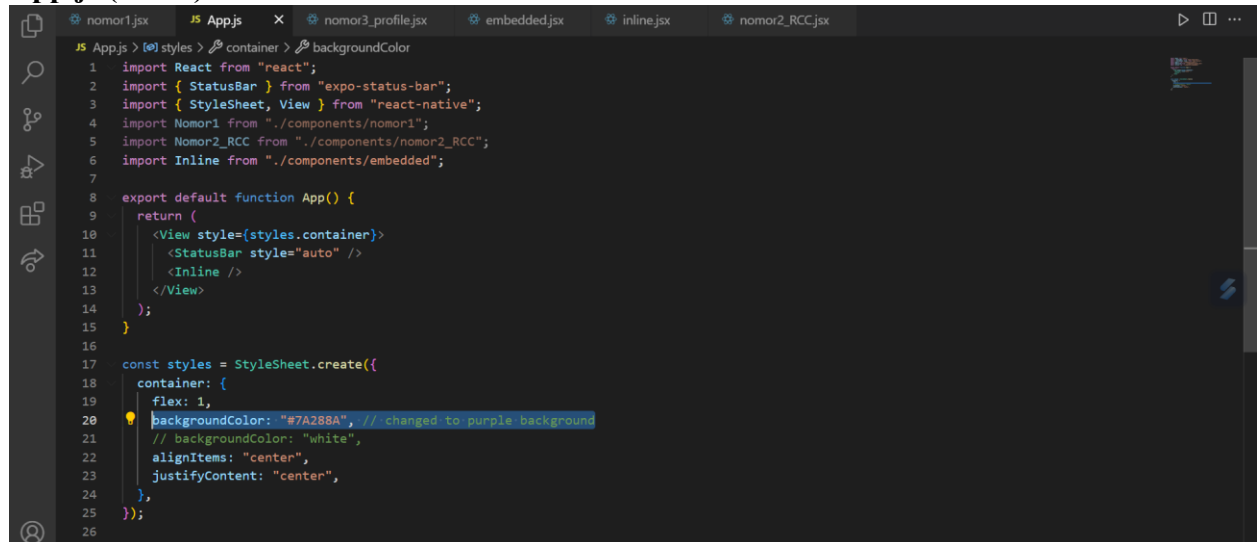
Source Code:

➤ **Inline.jsx**



```
components > inline.jsx > Inline
1  import React from "react";
2  import { View, Text, Image, StyleSheet } from "react-native";
3
4  export default function Inline() {
5    return (
6      <View
7        style={{
8          flex: 1,
9          backgroundColor: "#7A288A", // purple background
10         justifyContent: "center",
11         alignItems: "center",
12       }}
13    >
14      <Image
15        source={require("../assets/LogoIBIKBaru2022.png")}
16        style={{ width: 100, height: 100, resizeMode: "contain" }}
17      />
18      <View style={{ position: "absolute", bottom: 50 }}>
19        <Text style={{ color: "white", fontWeight: "bold" }}>Loading...</Text>
20      </View>
21    </View>
22  );
23 }
24
```

App.js (inline)



```
JS App.js > styles > container > backgroundColor
1  import React from "react";
2  import { StatusBar } from "expo-status-bar";
3  import { StyleSheet, View } from "react-native";
4  import Nomor1 from "../components/nomor1";
5  import Nomor2_RCC from "../components/nomor2_RCC";
6  import Inline from "../components/embedded";
7
8  export default function App() {
9    return (
10     <View style={styles.container}>
11       <StatusBar style="auto" />
12       <Inline />
13     </View>
14   );
15 }
16
17 const styles = StyleSheet.create({
18   container: {
19     flex: 1,
20     backgroundColor: "#7A288A", // changed to purple background
21     // backgroundColor: "white",
22     alignItems: "center",
23     justifyContent: "center",
24   },
25 });
26
```

Hasil Output:



➤ **Embedded
Source Code:**

```
components > embedded.jsx > 0 styles
1 import React from "react";
2 import { View, Text, Image, StyleSheet } from "react-native";
3
4 export default function Inline() {
5   return (
6     <View style={styles.container}>
7       <Image
8         source={require("../assets/LogoIBIKBaru2022.png")}
9         style={styles.image}
10       />
11       <View style={styles.loading}>
12         <Text style={styles.textColor}>Loading...</Text>
13       </View>
14     </View>
15   );
16 }
17
18 const styles = StyleSheet.create({
19   container: {
20     flex: 1,
21     backgroundColor: "#7A28BA", // purple background
22     justifyContent: "center",
23     alignItems: "center",
24   },
25   image: {
26     width: 100,
27     height: 100,
28     resizeMode: "contain",
29   },
30   loading: {
31     width: 100,
32     height: 100,
33     resizeMode: "contain",
34   },
35   textColor: {
36     color: "white",
37   },
38 });
```

```

28     resizeMode: "contain",
29   },
30   loading: {
31     position: "absolute",
32     bottom: 50,
33   },
34   textColor: {
35     color: "white",
36     fontWeight: "bold",
37   },
38 });
39

```

App.js (embedded):

```

nomor1.jsx  JS App.js  X  nomor3_profile.jsx  embedded.jsx  inline.jsx  nomor2_RCC.jsx
JS App.js > App
1  import React from "react";
2  import { StatusBar } from "expo-status-bar";
3  import { StyleSheet, View } from "react-native";
4  import Nomor1 from "../components/nomor1";
5  import Nomor2_RCC from "../components/nomor2_RCC";
6  import Embedded from "../components/embedded";
7
8  export default function App() {
9    return (
10     <View style={styles.container}>
11       <StatusBar style="auto" />
12       <Embedded />
13     </View>
14   );
15 }
16
17 const styles = StyleSheet.create({
18   container: {
19     flex: 1,
20     backgroundColor: "#7A288A", // changed to purple background
21     // backgroundColor: "white",
22     alignItems: "center",
23     justifyContent: "center",
24   },
25 });
26

```

Hasil Output :



4. Buatlah sebuah halaman untuk menampilkan informasi data diri anda, namun data mengenai informasi anda disimpan dalam bentuk sebuah Objek sebagai berikut:

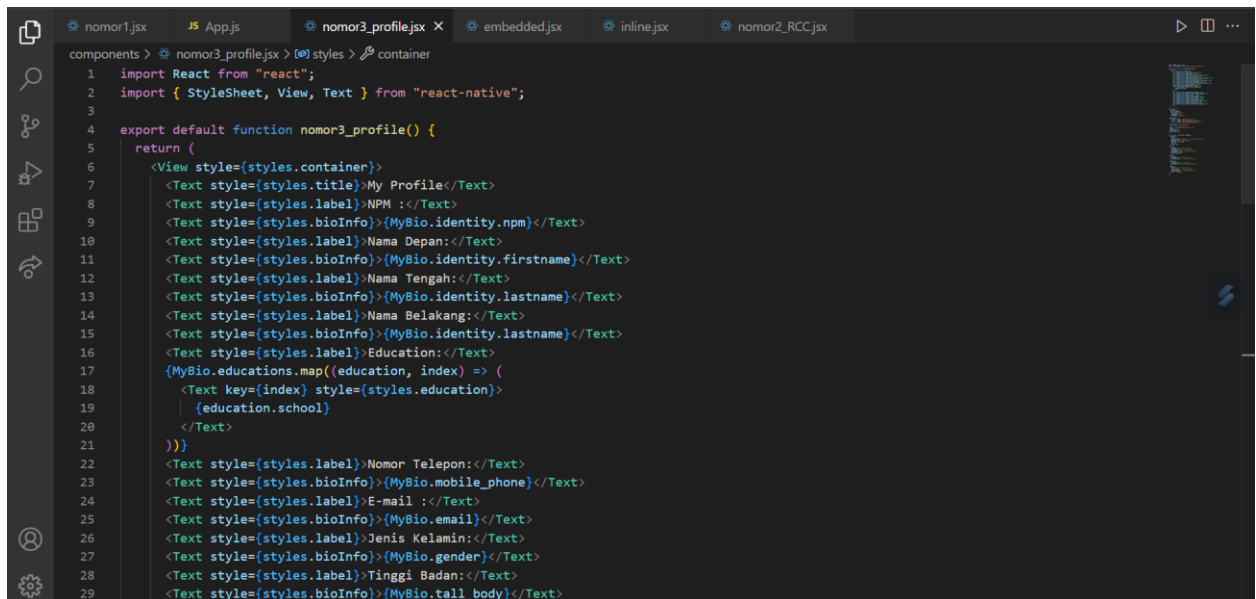

```
const MyBio = {
  identity: {
    npm: 212310056,
    firstname: "MUHAMMAD",
    middlename: "ZIDAN",
    lastname: "AKBAR",
  },
  educations: [
    {id: 1, school: "SDN 1 Kota Bogor"},
    {id: 2, school: "SMPN 1 Kota Bogor"},
    {id: 3, school: "SMAN 1 Kota Bogor"},
  ],
  mobile_phone: 0812345679,

  email: "212310056@student.ibik.ac.id",
  gender: 'M', tall_body: 175,
  weight_body: 64.5
}
```

Implementasikanlah variable diatas dengan menggunakan state variable RCC dan state variable RFC. Dan berikan output dari masing-masing component.

Jawaban:

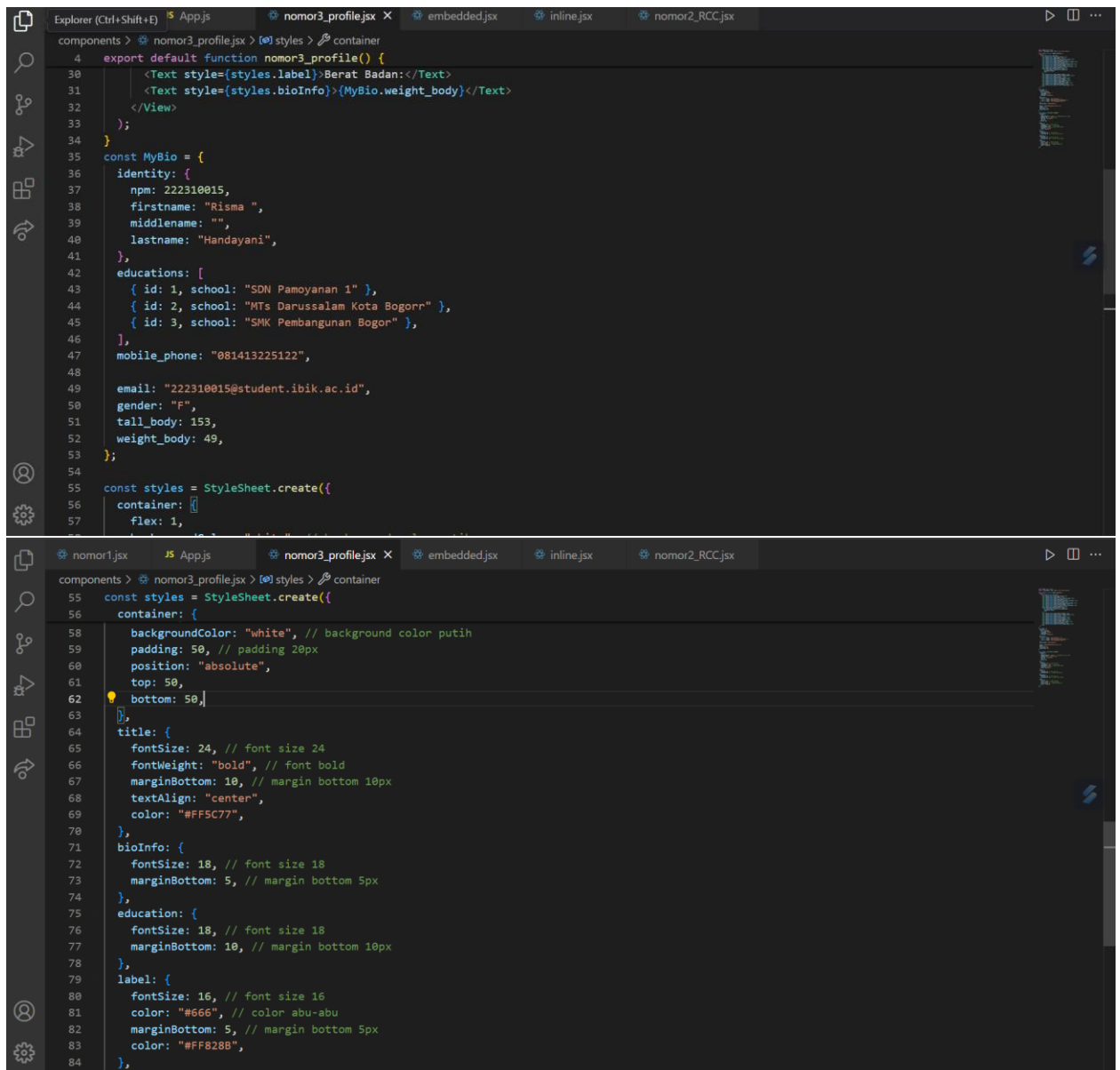
Source Code:



```

1  import React from "react";
2  import { StyleSheet, View, Text } from "react-native";
3
4  export default function nomor3_profile() {
5    return (
6      <View style={styles.container}>
7        <Text style={styles.title}>My Profile</Text>
8        <Text style={styles.label}>NPM :</Text>
9        <Text style={styles.bioInfo}>{MyBio.identity.npm}</Text>
10       <Text style={styles.label}>Nama Depan:</Text>
11       <Text style={styles.bioInfo}>{MyBio.identity.firstname}</Text>
12       <Text style={styles.label}>Nama Tengah:</Text>
13       <Text style={styles.bioInfo}>{MyBio.identity.lastname}</Text>
14       <Text style={styles.label}>Nama Belakang:</Text>
15       <Text style={styles.bioInfo}>{MyBio.identity.lastname}</Text>
16       <Text style={styles.label}>Education:</Text>
17       {MyBio.educations.map((education, index) => (
18         <Text key={index} style={styles.education}>
19           {education.school}
20         </Text>
21       ))}
22       <Text style={styles.label}>Nomor Telepon:</Text>
23       <Text style={styles.bioInfo}>{MyBio.mobile_phone}</Text>
24       <Text style={styles.label}>E-mail :</Text>
25       <Text style={styles.bioInfo}>{MyBio.email}</Text>
26       <Text style={styles.label}>Jenis Kelamin:</Text>
27       <Text style={styles.bioInfo}>{MyBio.gender}</Text>
28       <Text style={styles.label}>Tinggi Badan:</Text>
29       <Text style={styles.bioInfo}>{MyBio.tall_body}</Text>

```



The image displays two screenshots of a code editor, likely VS Code, showing the implementation of a React component and its associated styles.

Top Screenshot: The editor shows the `nomor3_profile.jsx` file. The code defines a `nomor3_profile` function that exports a default component. The component uses `MyBio` data and `styles` to render a profile card. The `MyBio` object contains personal and educational information. The `styles` object is created using `StyleSheet.create` and defines the container, title, bio info, education, and label styles.

```
4 export default function nomor3_profile() {
30   <Text style={styles.label}>Berat Badan:</Text>
31   <Text style={styles.bioInfo}>{MyBio.weight_body}</Text>
32   </View>
33   );
34 }
35 const MyBio = {
36   identity: {
37     npm: 222310015,
38     firstname: "Risma ",
39     middlename: "",
40     lastname: "Handayani",
41   },
42   educations: [
43     { id: 1, school: "SDN Pamoyanan 1" },
44     { id: 2, school: "MTs Darussalam Kota Bogorr" },
45     { id: 3, school: "SMK Pembangunan Bogor" },
46   ],
47   mobile_phone: "081413225122",
48   email: "222310015@student.ibik.ac.id",
49   gender: "F",
50   tall_body: 153,
51   weight_body: 49,
52 };
53
54
55 const styles = StyleSheet.create({
56   container: {
57     flex: 1,
```

Bottom Screenshot: The editor shows the `nomor3_profile.jsx` file, focusing on the `styles` object. The styles are defined for the container, title, bio info, education, and label. The container style includes background color, padding, position, top, and bottom. The title style includes font size, font weight, margin bottom, text align, and color. The bio info style includes font size, margin bottom, and color. The education style includes font size, margin bottom, and color. The label style includes font size, color, margin bottom, and color.

```
55 const styles = StyleSheet.create({
56   container: {
57     backgroundColor: "white", // background color putih
58     padding: 50, // padding 20px
59     position: "absolute",
60     top: 50,
61     bottom: 50,
62   },
63   title: {
64     fontSize: 24, // font size 24
65     fontWeight: "bold", // font bold
66     marginBottom: 10, // margin bottom 10px
67     textAlign: "center",
68     color: "#FF5C77",
69   },
70   bioInfo: {
71     fontSize: 18, // font size 18
72     marginBottom: 5, // margin bottom 5px
73   },
74   education: {
75     fontSize: 18, // font size 18
76     marginBottom: 10, // margin bottom 10px
77   },
78   label: {
79     fontSize: 16, // font size 16
80     color: "#666", // color abu-abu
81     marginBottom: 5, // margin bottom 5px
82     color: "#FF8288",
83   },
84 },
```

App.js:

```
JS App.js > styles > container > backgroundColor
1 import React from "react";
2 import { StatusBar } from "expo-status-bar";
3 import { StyleSheet, View } from "react-native";
4 // import Nomor1 from "./components/nomor1";
5 // import Nomor2_RCC from "./components/nomor2_RCC";
6 // import Embedded from "./components/embedded";
7 import Nomor3_profile from "./components/nomor3_profile";
8
9 export default function App() {
10   return (
11     <View style={styles.container}>
12       <StatusBar style="auto" />
13       <Nomor3_profile />
14     </View>
15   );
16 }
17
18 const styles = StyleSheet.create({
19   container: {
20     flex: 1,
21     // backgroundColor: "#7A288A", // changed to purple background
22     backgroundColor: "#F0F0F0",
23     alignItems: "center",
24     justifyContent: "center",
25   },
26 });
27
```

Hasil Output:

