

## Lab 2 : Fundamental Mobile Device Programming

- ให้นักศึกษาทำการสร้าง New Project ใหม่ ชื่อ ProjectInput และ ProjectFlex ใน Folder Mobile\<รหัสนักศึกษา>\ProjectFun แบบ **Blank Project** โดยใช้คำสั่ง

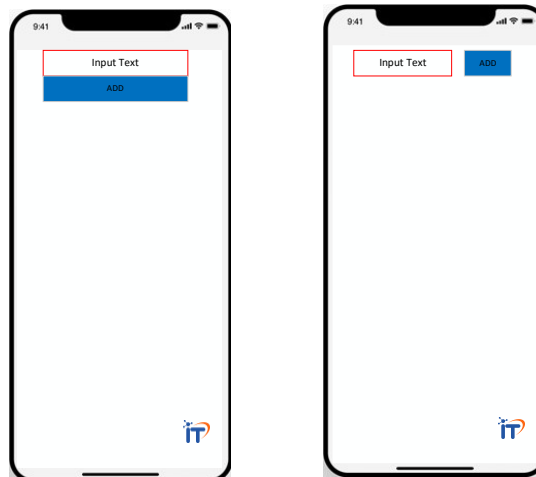
Expo init <path\folder\StudentID\Project name>

บันทึกผลการทดลอง :

Name	Date modified	Type	Size
node_modules	26/8/2563 9:19	File folder	
ProjectFlex	26/8/2563 9:51	File folder	
ProjectInput	26/8/2563 11:15	File folder	
package	26/8/2563 9:19	Adobe After Effect...	1 KB
yarn.lock	26/8/2563 9:19	LOCK File	511 KB

- ทำการสร้าง Mobile Apps ตาม รูป

**Hint :** TextInput, padding



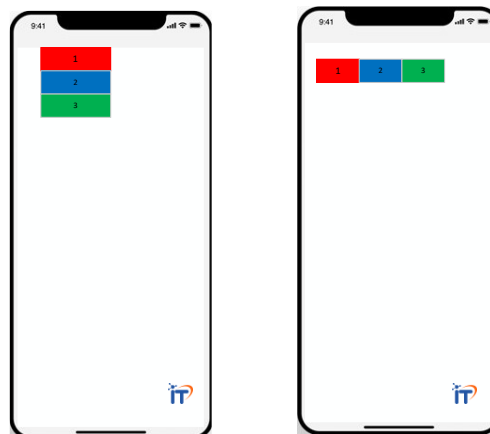
บันทึกผลการทดลอง :

```

1 import { StatusBar, useState } from "expo-status-bar";
2 import React from "react";
3 import { StyleSheet, Text, View, TextInput, Button, Image } from "react-native";
4
5 const Main = () => {
6   return (
7     <View style={styles.container}>
8       <View style={{
9         width: "90%",
10        marginTop: 50,
11        marginLeft: 10,
12      }}>
13        <TextInput placeholder="Input Text" style={styles.input} />
14        <Button title="ADD" />
15      </View>
16      <View style={{ position: "absolute", bottom: 50, left: 200 }}>
17        <Image
18          source={require("../assets/IT.png")}
19          style={{ width: 80, height: 80 }}
20        />
21      </View>
22    </View>
23  );
24 };
25
26 const styles = StyleSheet.create({
27   container: {
28     flex: 1,
29     backgroundColor: "#fff",
30     alignContent: "center",
31     flexDirection: "column"
32   },
33   input: {
34     borderWidth: 2,
35     borderColor: "red",
36     textAlign: "center",
37   },
38   button: {
39     height: 30,
40     width: 200,
41   },
42   box1: {
43     flex: 1,
44     flexDirection: "row",
45   },
46   box2: {
47     flex: 1,
48     flexDirection: "row",
49     height: 40,
50     width: 200,
51     margin: 50
52   },
53 });
54
55 export default Main;

```

- Hint :** padding, flexDirection



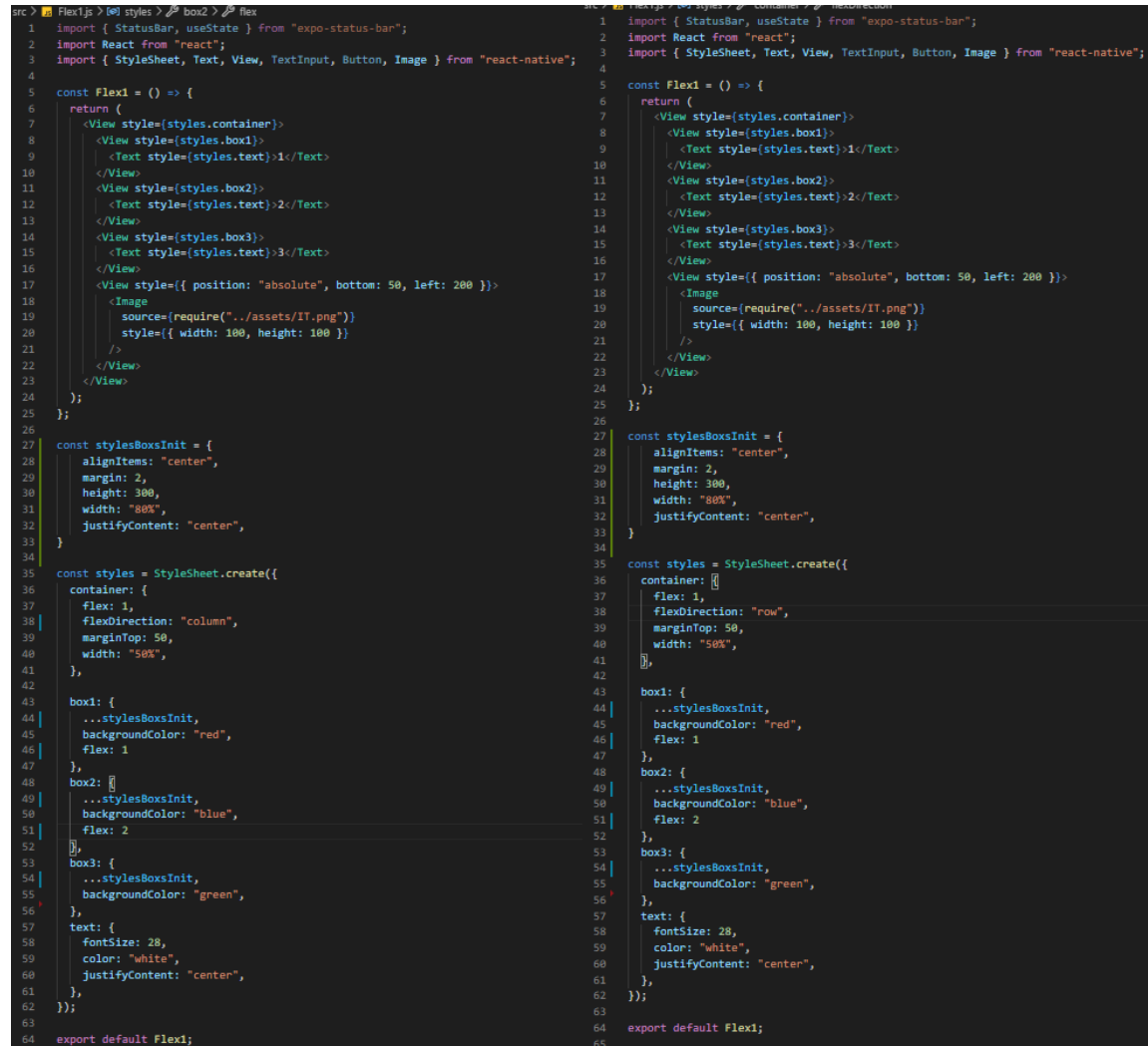


```
src > Flex1.js > 00 styles > text
1 import { StatusBar, useState } from "expo-status-bar";
2 import React from "react";
3 import { StyleSheet, Text, View, TextInput, Button, Image } from "react-native";
4
5 const Flex1 = () => {
6   return (
7     <View style={styles.container}>
8       <View style={styles.box1}>
9         <Text style={styles.text}>1</Text>
10      </View>
11      <View style={styles.box2}>
12        <Text style={styles.text}>2</Text>
13      </View>
14      <View style={styles.box3}>
15        <Text style={styles.text}>3</Text>
16      </View>
17      <View style={{ position: "absolute", bottom: 50, left: 200 }}>
18        <Image
19          source={require("../assets/IT.png")}
20          style={{ width: 100, height: 100 }}
21        </Image>
22      </View>
23    </View>
24  );
25 }
26
27 const stylesBoxesInit = {
28   alignItems: "center",
29   margin: 2,
30   height: 100,
31   width: 100,
32   justifyContent: "center",
33 }
34
35 const styles = StyleSheet.create({
36   container: {
37     flex: 1,
38     flexDirection: "column",
39     margin: 50,
40     width: "50%",
41   },
42   box1: {
43     ...stylesBoxesInit,
44     backgroundColor: "red",
45   },
46   box2: {
47     ...stylesBoxesInit,
48     backgroundColor: "blue",
49   },
50   box3: {
51     ...stylesBoxesInit,
52     backgroundColor: "green",
53   },
54   text: {
55     fontSize: 28,
56     color: "white",
57     justifyContent: "center",
58   },
59 });
60
61 export default Flex1;
62
src > Flex1.js > 00 styles > container > flexDirection
1 import { StatusBar, useState } from "expo-status-bar";
2 import React from "react";
3 import { StyleSheet, Text, View, TextInput, Button, Image } from "react-native";
4
5 const Flex1 = () => {
6   return (
7     <View style={styles.container}>
8       <View style={styles.box1}>
9         <Text style={styles.text}>1</Text>
10      </View>
11      <View style={styles.box2}>
12        <Text style={styles.text}>2</Text>
13      </View>
14      <View style={styles.box3}>
15        <Text style={styles.text}>3</Text>
16      </View>
17      <View style={{ position: "absolute", bottom: 50, left: 200 }}>
18        <Image
19          source={require("../assets/IT.png")}
20          style={{ width: 100, height: 100 }}
21        </Image>
22      </View>
23    </View>
24  );
25 }
26
27 const stylesBoxesInit = {
28   alignItems: "center",
29   margin: 2,
30   height: 100,
31   width: 100,
32   justifyContent: "center",
33 }
34
35 const styles = StyleSheet.create({
36   container: {
37     flex: 1,
38     flexDirection: "row",
39     margin: 50,
40     width: "50%",
41   },
42   box1: {
43     ...stylesBoxesInit,
44     backgroundColor: "red",
45   },
46   box2: {
47     ...stylesBoxesInit,
48     backgroundColor: "blue",
49   },
50   box3: {
51     ...stylesBoxesInit,
52     backgroundColor: "green",
53   },
54   text: {
55     fontSize: 28,
56     color: "white",
57     justifyContent: "center",
58   },
59 });
60
61 export default Flex1;
62
```

3.1 ให้ปรับเปลี่ยนค่าของพารามิเตอร์ความกว้างและความสูงเป็น 80% และ 300 ตามลำดับ

3.2 ให้ปรับปรุงโปรแกรม โดยเพิ่มพารามิเตอร์ Flex ใน สีแดงและน้ำเงิน โดยให้ ค่าของ Flex ในสีแดง = 1 และสีน้ำเงิน = 2

บันทึกผลการทดลอง :



```

src > Flex1.js > [0] styles > [0] box2 > [0] flex
1 import { StatusBar, useState } from "expo-status-bar";
2 import React from "react";
3 import { StyleSheet, Text, View, TextInput, Button, Image } from "react-native";
4
5 const Flex1 = () => {
6   return (
7     <View style={styles.container}>
8       <View style={styles.box1}>
9         <Text style={styles.text}>1</Text>
10      </View>
11      <View style={styles.box2}>
12        <Text style={styles.text}>2</Text>
13      </View>
14      <View style={styles.box3}>
15        <Text style={styles.text}>3</Text>
16      </View>
17      <View style={{ position: "absolute", bottom: 50, left: 200 }}>
18        <Image
19          source={require("../assets/IT.png")}
20          style={{ width: 100, height: 100 }}
21        </Image>
22      </View>
23    </View>
24  );
25 };
26
27 const stylesBoxesInit = {
28   alignItems: "center",
29   margin: 2,
30   height: 300,
31   width: "80%",
32   justifyContent: "center",
33 };
34
35 const styles = StyleSheet.create({
36   container: {
37     flex: 1,
38     flexDirection: "column",
39     marginTop: 50,
40     width: "50%",
41   },
42   box1: {
43     ...stylesBoxesInit,
44     backgroundColor: "red",
45     flex: 1
46   },
47   box2: {
48     ...stylesBoxesInit,
49     backgroundColor: "blue",
50     flex: 2
51   },
52   box3: {
53     ...stylesBoxesInit,
54     backgroundColor: "green",
55   },
56   text: {
57     fontSize: 28,
58     color: "white",
59     justifyContent: "center",
60   },
61 });
62
63 export default Flex1;
64
src > Flex1.js > [0] styles > [0] container > [0] flex
1 import { StatusBar, useState } from "expo-status-bar";
2 import React from "react";
3 import { StyleSheet, Text, View, TextInput, Button, Image } from "react-native";
4
5 const Flex1 = () => {
6   return (
7     <View style={styles.container}>
8       <View style={styles.box1}>
9         <Text style={styles.text}>1</Text>
10      </View>
11      <View style={styles.box2}>
12        <Text style={styles.text}>2</Text>
13      </View>
14      <View style={styles.box3}>
15        <Text style={styles.text}>3</Text>
16      </View>
17      <View style={{ position: "absolute", bottom: 50, left: 200 }}>
18        <Image
19          source={require("../assets/IT.png")}
20          style={{ width: 100, height: 100 }}
21        </Image>
22      </View>
23    </View>
24  );
25 };
26
27 const stylesBoxesInit = {
28   alignItems: "center",
29   margin: 2,
30   height: 300,
31   width: "80%",
32   justifyContent: "center",
33 };
34
35 const styles = StyleSheet.create({
36   container: {
37     flex: 1,
38     flexDirection: "row",
39     marginTop: 50,
40     width: "50%",
41   },
42   box1: {
43     ...stylesBoxesInit,
44     backgroundColor: "red",
45     flex: 1
46   },
47   box2: {
48     ...stylesBoxesInit,
49     backgroundColor: "blue",
50     flex: 2
51   },
52   box3: {
53     ...stylesBoxesInit,
54     backgroundColor: "green",
55   },
56   text: {
57     fontSize: 28,
58     color: "white",
59     justifyContent: "center",
60   },
61 });
62
63 export default Flex1;
64

```