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| **Lab No** | 12 | **Reg. No** | 224921 |
| **Student Name** | Muhammad Saad Tariq | **Section** | A |

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| Code |
| App.js  import React, { Component } from 'react';  import {    StyleSheet,    View,    StatusBar  } from 'react-native';  import Routes from './Routes.js';  export default class App extends Component{    render() {      return (        <View style={styles.container}>          <StatusBar            backgroundColor="#002f6c"            barStyle="light-content"          />          <Routes/>        </View>      );    }  }  const styles = StyleSheet.create({    container: {      flex: 1,    }  });    Form.js  import React, { Component } from 'react';  import { StyleSheet, Text, View, TextInput, TouchableOpacity, AsyncStorage, Keyboard } from 'react-native';  export default class Form extends Component {     constructor(props)     {       super(props);       this.state=       {          email:'',          password: ''       }  }  saveData =async()=>{          const {email,password} = this.state;          //save data with asyncstorage          let loginDetails={              email: email,              password: password          }  if(this.props.type !== 'Login'){              AsyncStorage.setItem('loginDetails', JSON.stringify(loginDetails));              Keyboard.dismiss();              alert("You successfully registered. Email: " + email + ' password: ' + password);              this.login();          }          else if(this.props.type == 'Login'){              try{                  let loginDetails = await AsyncStorage.getItem('loginDetails');                  let ld = JSON.parse(loginDetails);                  if (ld.email != null && ld.password != null) {                      if (ld.email == email && ld.password == password)                      {                          alert('Logged In!');                      }  else                      {                          alert('Email and Password does not exist!');                      }                  }              }catch(error)              {                  alert(error);              }          }  }  showData = async()=>{      let loginDetails = await AsyncStorage.getItem('loginDetails');      let ld = JSON.parse(loginDetails);      alert('email: '+ ld.email + ' ' + 'password: ' + ld.password);  }  render() {          return(              <View style={styles.container}>                  <TextInput style={styles.inputBox}                  onChangeText={(email) => this.setState({email})}                  underlineColorAndroid='black'                  placeholder="Email"                  placeholderTextColor = "black"                  selectionColor="black"                  keyboardType="email-address"                  onSubmitEditing={()=> this.password.focus()}/>                  <Text>{'\n'}</Text>                  <TextInput style={styles.inputBox}                  onChangeText={(password) => this.setState({password})}                  underlineColorAndroid='black'                  placeholder="Password"                  secureTextEntry={true}                  placeholderTextColor = "black"                  ref={(input) => this.password = input}                  />                  <Text>{'\n'}</Text>                  <Text>{'\n'}</Text>                  <TouchableOpacity style={styles.button}>                      <Text style={styles.buttonText} onPress={this.saveData}>{this.props.type}</Text>                  </TouchableOpacity>              </View>          )  }  }  const styles = StyleSheet.create({      container: {          //justifyContent: 'center',          alignItems: 'center',      },      inputBox: {          width: 300,          backgroundColor: '#fff',          paddingHorizontal: 20,          fontSize: 16,          color: '#000',          marginVertical: 10        },      button: {          width: 300,          backgroundColor: 'brown',          marginVertical: 10,          paddingVertical: 12      },      buttonText: {          fontSize: 20,          fontWeight: '500',          color: 'black',          textAlign: 'center'      }  });  login.js  import React, { Component } from 'react';  import { StyleSheet, Text, View, TextInput, TouchableOpacity, AsyncStorage, Keyboard } from 'react-native';  import {Actions} from 'react-native-router-flux';  import Form from './Form';  export default class Login extends Component {      signup() {          Actions.signup()      }      render() {          return(                  <View style={styles.container}>                  <Text>{'\n'}</Text>                  <Text>{'\n'}</Text>                  <Form type="Login"/>                  <View style={styles.signupTextCont}>                      <Text style={styles.signupText}>Not registered? </Text>                      <TouchableOpacity onPress={this.signup}><Text style={styles.signupButton}>Signup</Text></TouchableOpacity>                  </View>              </View>          )      }  }  const styles = StyleSheet.create({      container: {        flex: 1,        //justifyContent: 'center',        alignItems: 'center',        backgroundColor: 'gray',      },      signupTextCont: {        flexGrow: 1,        //justifyContent: 'center',        alignItems: 'flex-end',        paddingVertical: 16,        flexDirection: 'row',      },      signupText: {        color: '#000',        fontSize:20,      },      signupButton: {          color: 'blue',          fontSize:20,          fontWeight: '600',      }  });  Signup.js  import React, { Component } from 'react';  import {    StyleSheet,    Text,    View,    TextInput,    TouchableOpacity,    AsyncStorage,    Keyboard,  } from 'react-native';  import { Actions } from 'react-native-router-flux';  import Form from './Form';  export default class Signup extends Component {    goBack() {      Actions.pop();    }    render() {      return (        <View style={styles.container}>          <Text>{'\n'}</Text>          <Text>{'\n'}</Text>          <Form type="Signup" />          <View style={styles.signupTextCont}>            <Text style={styles.signupText}>Already have an account? </Text>            <TouchableOpacity onPress={this.goBack}>              <Text style={styles.signupButton}>Sign in</Text>            </TouchableOpacity>          </View>        </View>      );    }  }  const styles = StyleSheet.create({    container: {      flex: 1,      //justifyContent: 'center',      alignItems: 'center',      backgroundColor: 'gray',    },    signupTextCont: {      flexGrow: 1,      //justifyContent: 'center',      alignItems: 'flex-end',      paddingVertical: 16,      flexDirection: 'row',    },    signupText: {      color: '#000',      fontSize: 20,    },    signupButton: {      color: '#000',      fontSize: 20,    },  });  Routes.js  import React, { Component } from 'react';  import {Router, Stack, Scene} from 'react-native-router-flux';  import Login from './login';  import Signup from './signup';  export default class Routes extends Component {      render() {          return (              <Router hideNavBar={false}                  navigationBarStyle={styles}                  titleStyle={styles}              >                  <Stack key="root">                  <Scene key="login" component={Login} title="Login"/>                  <Scene key="signup" component={Signup} title="Sign up"/>                  </Stack>              </Router>          )      }  }  const styles = {      backgroundColor: 'brown',      color: '#000',  } |

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| Output |
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