# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 11: React Native Calculator Application

**Date: 05 December, 2019**

**Time: 10:00-01:00pm & 02:00-05:00pm**

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**REGISTRATION #: 213292**

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**Lab Engineer: Ms. Ayesha Asif**

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# Lab 11: React Native Calculator Application

**Lab Task**

Create a basic calculator app in react native

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| Solution |
| Task Code:  import React, { Component } from "react";  import {  StyleSheet,  TouchableHighlight,  Text,  View,  Button  } from "react-native";  export default class app extends Component {  constructor(props) {  super(props);  this.state = {  text: ""  };  this.result = this.result.bind(this);  }  result() {  this.setState({ text: eval(this.state.text) });  }  render() {  return (  <View style={{ flex: 1 }}>  <View style={{ flex: 2, backgroundColor: "white" }}>  <Text  style={{  fontSize: 70,  color: "black",  textAlign: "right",  textAlignVertical: "bottom"  }}  >  {this.state.text}  </Text>  </View>  <View  style={{ flexDirection: "row", flex: 4, backgroundColor: "grey" }}  >  <View style={{ flexDirection: "row", flex: 3 }}>  <View style={{ flex: 1 }}>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "1" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  1  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "4" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  4  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "7" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  7  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight onPress={() => this.setState({ text: "" })}>  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  C  </Text>  </TouchableHighlight>  </View>  </View>  <View style={{ flex: 1 }}>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "2" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  2  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "5" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  5  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "8" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  8  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "0" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  0  </Text>  </TouchableHighlight>  </View>  </View>  <View style={{ flex: 1 }}>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "3" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  3  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "6" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  6  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "9" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  9  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight onPress={this.result}>  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  =  </Text>  </TouchableHighlight>  </View>  </View>  </View>  <View style={{ flex: 1, backgroundColor: "black" }}>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "+" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  +  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "-" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  -  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "/" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  /  </Text>  </TouchableHighlight>  </View>  <View style={{ flex: 1 }}>  <TouchableHighlight  onPress={() => this.setState({ text: this.state.text + "\*" })}  >  <Text  style={{  fontSize: 40,  color: "white",  textAlign: "center",  textAlignVertical: "center"  }}  >  \*  </Text>  </TouchableHighlight>  </View>  </View>  </View>  </View>  );  }  }  Task Output Screenshot:    RESULT:      RESULT: |