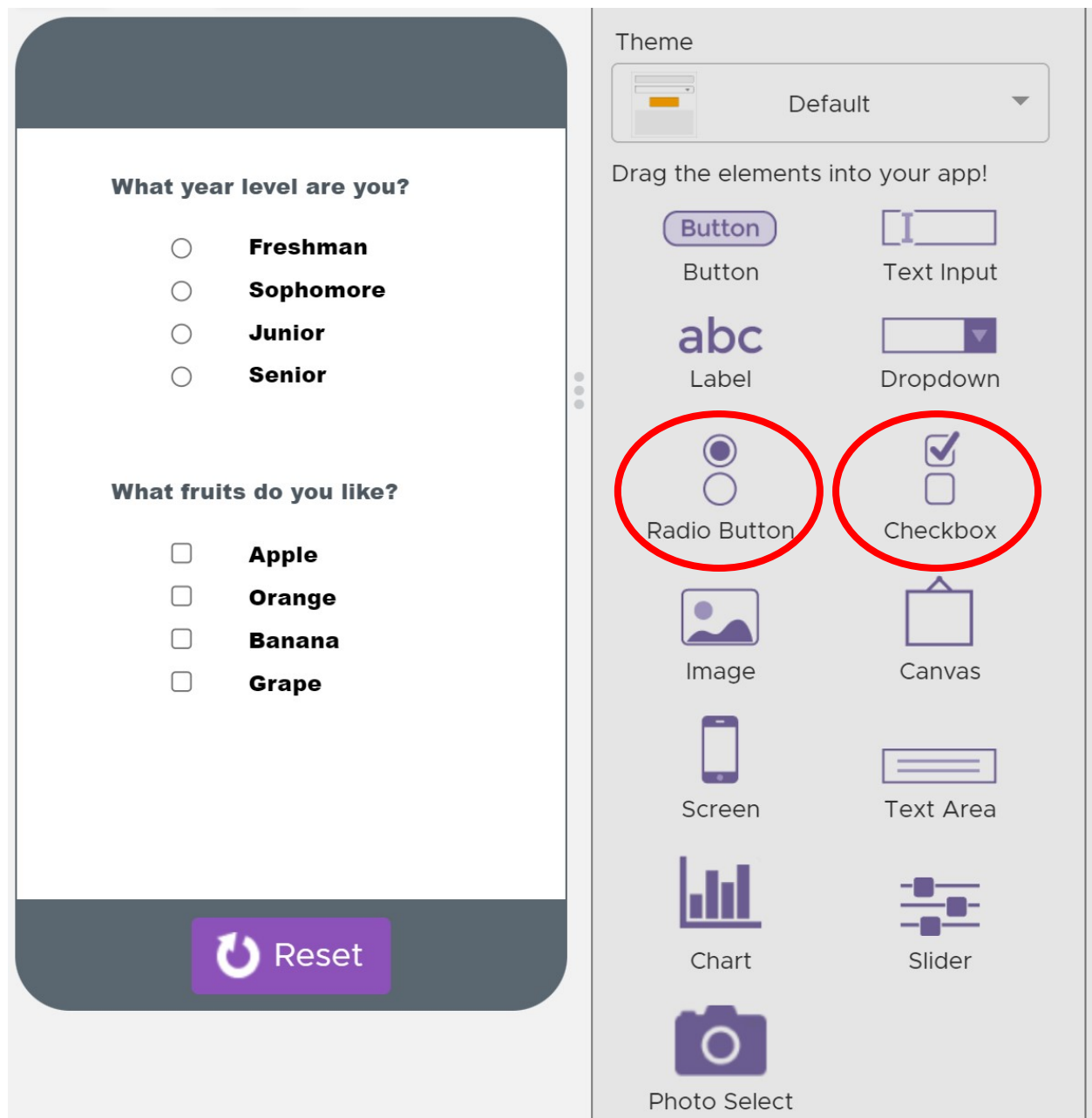


## Radio Button and Checkbox

### 1. Introduction

Radio buttons are for selecting only one item from several given options.

Check boxes are for selecting one or more items from several given options.



For the radio button, notice the group property that each button is in.

```
1  onEvent(▼"radio_button1", ▼"change", function(●) {  
2      setText(▼"msg1", "Radio button 1 is " + isChecked("radio_button1"));  
3  });  
4  onEvent(▼"checkbox1", ▼"change", function(●) {  
5      setText(▼"msg2", "Checkbox 1 is " + isChecked("checkbox1"));  
6  });
```

**Problems** (Questions with an \* are more difficult)

- 1) Display the message “I am a Freshman too” if the user selects Freshman. You don’t have to remove the message if the button is deselected. Hint: think about when does the button gets selected?
- 2) \* Display the message “I am a Freshman too” if the user selects Freshman, and remove the message if the button is deselected. Hint: 1) you need to have onEvents for each of the other radio buttons. 2) You do not need the IF command.
- 3) Display the message “I like apples too” if Apple is selected. Hint: think about when does the button gets selected? This is very different from the Freshman radio button one.
- 4) Display the message “I like apples too” if Apple is selected, and remove the message if Apple is deselected. Hint: 1) you do not need to have other onEvents; 2) you need the IF .. ELSE command. The question to ask is whether the checkbox is selected or not (i.e. whether the checkbox value is true or false)
- 5) \* How many variables does the computer need to remember the year level selected?
  - If you use 4 variables what are the values to store in order to remember the fact?
  - If you use 1 variable what are the values to store in order to remember the fact?
- 6) \* How many variables does the computer need to remember all the fruits selected?
  - If you use 4 variables what are the values to store in order to remember the fact?
  - If you use 1 variable what are the values to store in order to remember the fact?
- 7) Display the year level selected using the words Freshman, Sophomore, Junior and Senior.
- 8) For the Freshman radio button only, display the word true or false depending on whether that button is selected or not.
- 9) Display only one of the fruits selected. Hint. Need to use a combination of onEvent and IF.
- 10) \* Display all the fruits selected. Hint. Need to use a combination of onEvent and IF
- 11) \*\* Display the year level selected AND all the fruits selected formatting as one sentence such as “You are a Junior and you like to eat apples, oranges, and banana”
- 12) \*\* Display the message “I like apples and oranges too” if the user selects only Apple and Orange.
- 13) \*\* Display how many fruits have been selected with a complete sentence such as “You selected 3 fruits”

- 14) \*\* Continuing from question 13), make the sentence grammatically correct, i.e. when only one fruit is selected then display the message without the s in fruits, otherwise, display the message with the s in fruits.
- 15) \*\*\* Continuing from question 14), add the message “You did not select any fruits” if the count is 0. In other words, there’ll be three options