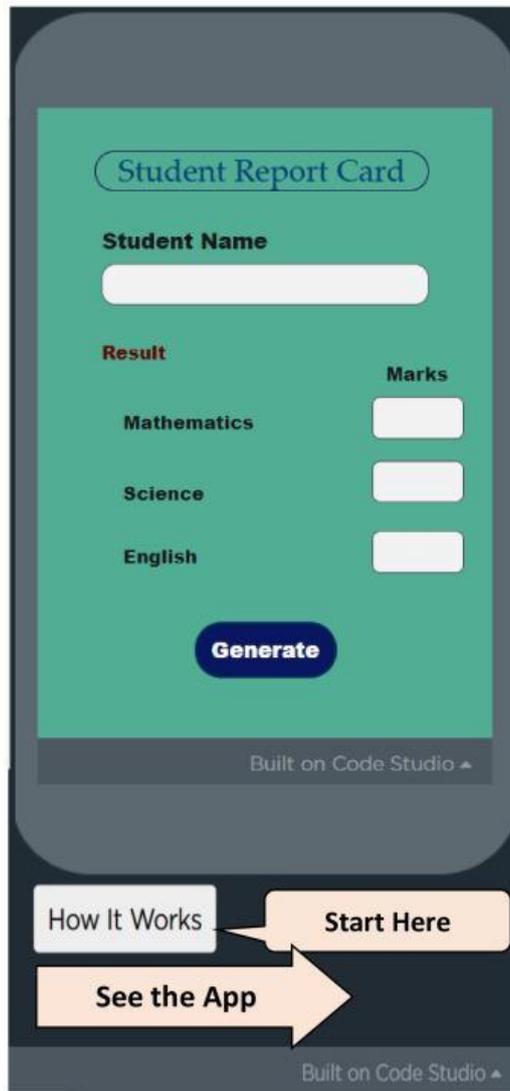


Project 42



Coding School



Let's create a Student Report Card. there,

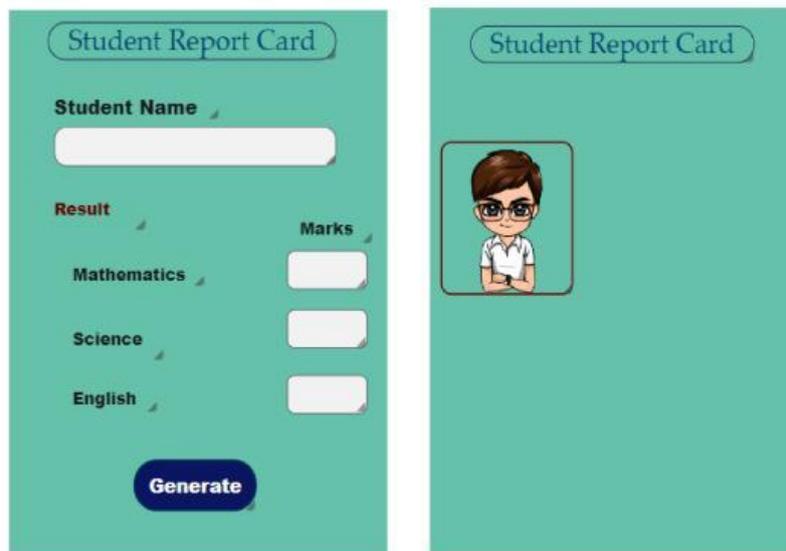
When Generate is clicked, Screen2

Total mark and Average should be displayed on Screen2.

Let's display the red label according to the Average.



- ❖ According to the student's average, if the average is more than 75, "Your Average Is Very Good." Also, if the average is between 74 and 50, "Your Average Is Good." and if the average is less than 50 "Your Average Is Low." should be displayed as.
- ❖ The background and basics you need are provided. (screen1 and screen2)



- ❖ All desings of Screen1 and Screen2 are given to you.

- ❖ First, create variables for marks in mathematics, science and English.
- ❖ Also, create variable for total mark and average.

```
var Mathematics_mark = 0;  
var Science_mark = 0;  
var English mark = 0;  
var Total = 0;  
var Average = 0;
```

- ❖ When the Generate Button is clicked, assign the marks to the variables related to the subject.

```
onEvent (▼ "button_Generate", ▼ "click", function () {  
  Mathematics_mark = getNumber (▼ "Mathematics_input") ;  
  Science_mark = getNumber (▼ "Science_input") ;  
  English mark = getNumber (▼ "English_input") ;  
});
```

Now calculate the total as follows.

```
Total = Mathematics_mark + Science_mark + English mark ;
```

- ❖ To calculate the average, the total should be divided by the subject count. Then, since the average comes with decimal numbers, let's round the average to a whole number. Let's use the round block in the "Math" category for that.

```
Average = Total / 3 ;  
Average = Math.round (Average) ;
```

- ❖ Set the student's name, total mark and average to the labels "label_name", "label_Total_mark" and "label_average" respectively.

```
setText(▼ "label_name", getText(▼ "input_Student_name"));  
setText(▼ "label_Total_mark", "Total mark = " + Total);  
setText(▼ "label_average", "Average = " + Average);
```

- ❖ Now according to the student's average, if the average is more than 75, "Your Average Is Very Good." Also, if the average is between 74 and 50, "Your Average Is Good." If the average is less than 50, "Your Average Is Low." should be displayed as.

- ❖ For that, let's use the if-else block in the "Control" category.

- ❖ First see if the average is greater than or equal to 75. If so, "Your Average Is Very Good." Go and set the label to "label_comment".

- ❖ If the average is between 74 and 50, "Your Average Is Good." Let's drag another if-else block to the else section to be displayed. In the second if-else block, check if the average is greater than or equal to 50. If so, "Your Average Is Good." Go and set the label to "label_comment".

- ❖ Now in the else part, when the average is less than 50, "Your Average Is Low." Go and set the label to "label_comment".

```
if (Average >= 75) {  
    setText(▼ "label_comment", "Your Average Is Very Good.");  
} else {  
    if (Average >= 50) {  
        setText(▼ "label_comment", "Your Average Is Good.");  
    } else {  
        setText(▼ "label_comment", "Your Average Is Low.");  
    }  
}
```

Complete this part of code,

```
var Mathematics_mark = 0;  
var Science_mark = 0;  
var English_mark = 0;  
var Total = 0;  
var Average = 0;
```

```
onEvent(▼"button_Generate", ▼"click", function() {  
    Mathematics_mark = getNumber(▼"Mathematics_input");  
    Science_mark = getNumber(▼"Science_input");  
    English_mark = getNumber(▼"English_input");  
    Total = Mathematics_mark + Science_mark + English_mark;  
    Average = Total / 3;  
    Average = Math.round(Average);  
    setText(▼"label_name", getText(▼"input_Student_name"));  
    setText(▼"label_Total_mark", "Total mark = " + Total);  
    setText(▼"label_average", "Average = " + Average);  
    if (Average >= 75) {  
        setText(▼"label_comment", "Your Average Is Very Good.");  
    } else {  
        if (Average >= 50) {  
            setText(▼"label_comment", "Your Average Is Good.");  
        } else {  
            setText(▼"label_comment", "Your Average Is Low.");  
        }  
    }  
    setScreen(▼"screen2");  
});
```

Give correct answers.

1. What blocks are used to make average an integer?

```
var x = Math.random(79.782); var x = Math.abs(79.782); var x = Math.round(79.782);
```

2. Which of the following statements regarding this block is incorrect?

```
if (Average > 75) {  
  setText(▼ "label_comment", "Your Average Is Very Good.");  
}
```

When Average = 75 "Your Average Is Very Good." is displayed as

When Average = 80 "Your Average Is Very Good." is displayed as

When Average = 75 "Your Average Is Very Good." not display as.

3. Which of the following statements regarding this block is correct?

```
if (Average >= 50) {  
  setText(▼ "label_comment", "Your Average Is Good.");  
}
```

"Your Average Is Good" when the average is less than 50. is displayed as

"Your Average Is Good" only when the Average is greater than 51. is displayed as

"Your Average Is Good" when the Average is equal to or greater than 50. is displayed as

4. Select the relevant block set to sound "You are very talented student" when you get more than 75 equivalents.

```
if (Average >= 75) {  
  setText(▼"label_comment", "Your Average Is Very Good.");  
  playSpeech("You are very talented student", ▼"female", ▼"English");  
}
```

```
if (Average >= 75) {  
  setText(▼"label_comment", "Your Average Is Very Good.");  
}  
playSpeech("You are very talented student", ▼"female", ▼"English");
```

```
if (Average <= 75) {  
  setText(▼"label_comment", "Your Average Is Very Good.");  
}  
playSpeech("You are very talented student", ▼"female", ▼"English");
```

5. Average is equal to or above 75 as "A", if Average is between 65 and 74 as "B", if Average is between 55 and 64 as "C" and if Average is between 35 and 54 " What blocks are used to display as S" and if the Average is more than 34 as "B"?"

```
if (Average > 75) {
  setText(▼"label_comment", "A");
} else {
  if (Average > 65) {
    setText(▼"label_comment", "B");
  } else {
    if (Average > 55) {
      setText(▼"label_comment", "C");
    } else {
      if (Average > 35) {
        setText(▼"label_comment", "S");
      } else {
        setText(▼"label_comment", "F");
      }
    }
  }
}
```

```
if (Average >= 75) {
  setText(▼"label_comment", "A");
} else {
  if (Average >= 65) {
    setText(▼"label_comment", "B");
  } else {
    if (Average <= 55) {
      setText(▼"label_comment", "C");
    } else {
      if (Average <= 35) {
        setText(▼"label_comment", "S");
      } else {
        setText(▼"label_comment", "F");
      }
    }
  }
}
```

```
if (Average >= 75) {
  setText(▼"label_comment", "A");
} else {
  if (Average >= 65) {
    setText(▼"label_comment", "B");
  } else {
    if (Average >= 55) {
      setText(▼"label_comment", "C");
    } else {
      if (Average >= 35) {
        setText(▼"label_comment", "S");
      } else {
        setText(▼"label_comment", "F");
      }
    }
  }
}
```