

Midterm

Part B

Part B is worth 60% of the Midterm Mark

Marks: This will be marked out of 100 marks

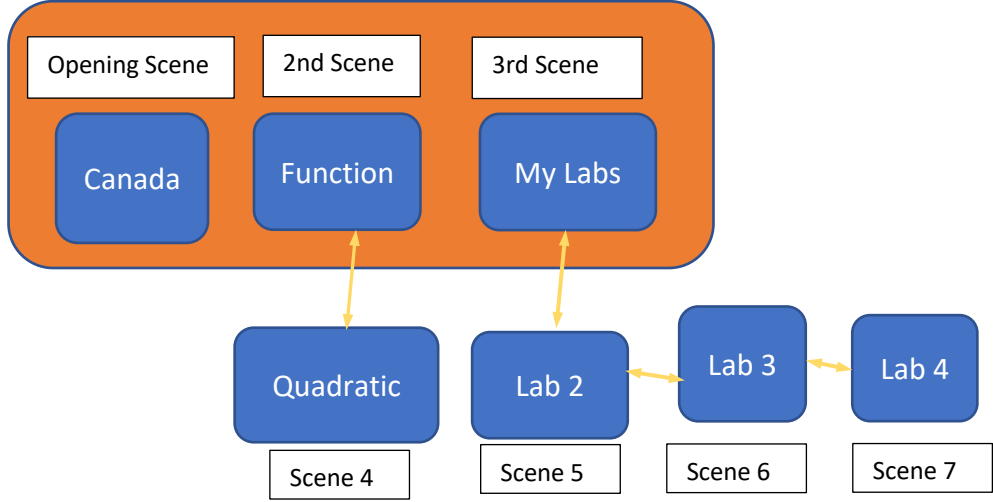
Conditions: Open book

Submission Details:

- You must upload your file before the deadline
- No submissions will be accepted via email
- 10% penalty will apply for every 2 minutes after the deadline
- Your file should be a zip file containing all the necessary elements to run your program
- You will be allowed multiple submissions but only your last submission will be marked
- Upload your work as you go along
- Please comment your code this makes up 15 points of your grade
- Anyone submitting after 12:10 am will not be graded

There are 6 parts to this Mid-Term

General project setup	25
Canada Scene	25
Calculate Scene	15
Quadratic Formula Scene	25
MyLabs Scene(s)	15
Clean code and proper documentation	15
Total Marks available	120

Work effort	IN RUBRIC REQUIREMENT FOR PROJECT NAME IS DIFFERENT	Marks
The Project name should be	Firstname_Lastname_MT_StudentNumber	2
Create a new Xcode project that is can be used only on iphone and in portrait mode only.		4
Add 7 (seven) more scenes (label each of your scenes exactly as the values in bold font)	CONFUSION WITH TITLES AS IN BELOW SCREENSHOTS TITLE IS DIFFERENT	7
<ol style="list-style-type: none"> 1. Opening - Canada, 2. 2nd Scene – Function 3. 3rd Scene – MyLabs 4. 4rd Scene -Quadratic 5. 5th Scene – Lab2 6. 6th Scene – Lab3 7. 7th Scene – Lab4 		
Navigation for these pages should flow as follows		4
Used the correct navigation objects		4
Added all necessary files and associated to each scene		4
Total Grades for Setup		25

This is the Canada Scene

Please use the **Scene One.zip** file for all images
Please include all the cities as labelled in the image files

The functionality should allow the user to enter the name of a valid city and display the image.

The background color should be a match

1 Label

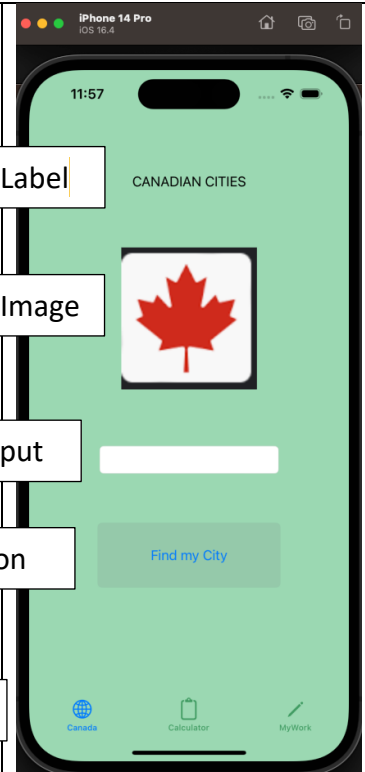
2 Image

3 Text input

4 Button

5 Navigation

6 Functionality



Work Effort

Marks

1. Label

Value Canadian Cities IS IT TITLE?
INITIALLY ASKED TO SHOW TITLE CANADA FOR THIS PAGE

Dimension should be 250 pix x 60 pix in dimension.

Label should always maintain their aspect ratio.

Constraints Should be set.

5

2 Image

Value – Image should reflect the city that is entered.

Dimension of object is 374 pixels x 175 pixels.

Aspect ratio should be maintained.

Constraints Should be set.

You should open with the Canada flag image.

5

3 Input box

Value – This should be entered by the user.

Dimension of object is 220 pixels x 34 pixels.

Aspect ratio should be maintained.

Constraints Should be set.

5

4 Button

Value – “Find my City”

Dimensions – 225 pixels x 80 pixels

Constraints Should be set

5

5 Navigation Tab bar navigation position 1 with globe Icon	1
6 Functionality When entering a city name the page displays image correctly When rotating the page is locked in portrait Keyboard appears/disappears as needed. An error message should display if the city is not found.	4
TOTAL GRADES FOR INPUTVIEW	25

This is the Function Scene

This scene will include an

- 1) image called Quadratic.png.
2. a Button called "Function Scene"

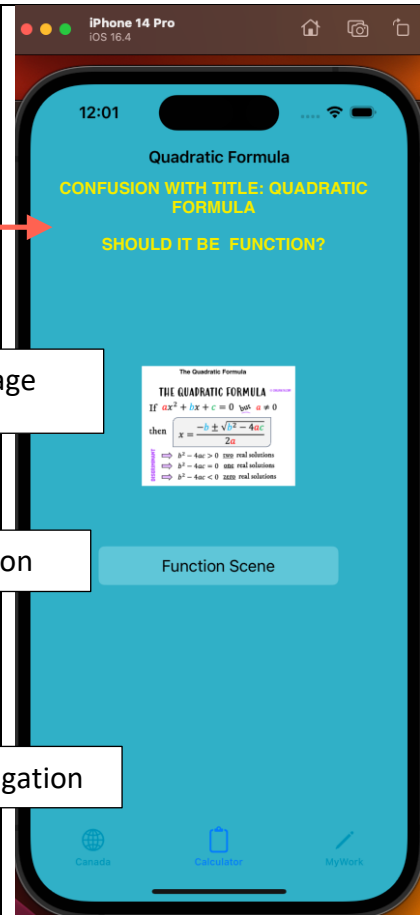
???



1 Image

2 Button

3 Navigation



Work Effort	Marks
1. Image Value – Quadratic.png. Dimensions – 250 pixels x 125 pixels Maintain aspect ratio Constraints	6
2. Button Value – Function Scene Dimensions – 250 pixels x 35 pixels Maintain aspect ratio Action – Navigate to Quadratic View	7
3. Navigation Tab bar navigation position 2 with Clipboard Color of icon is blue	2
TOTAL GRADES FOR FUNCTION VIEW	15

This is the Quadratic Scene

PLEASE REVIEW ALL SCREENS BEFORE STARTING THIS SCENE

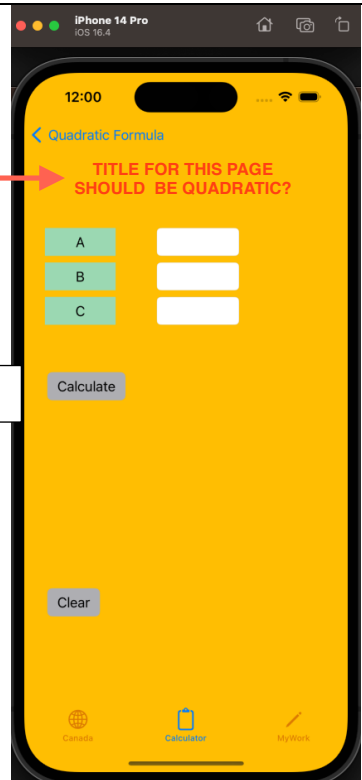
1. The user should be able to navigate back to the Function Scene using the back button.
2. This Scene will require the user to enter 3(three) values into A,B and C
3. There is a calculate button that will calculate the value of x that the user must push to get the results.
4. The clear button will reset all values.

1 Back button

2 Input A & B & C

3 Calculate button

4 Clear button



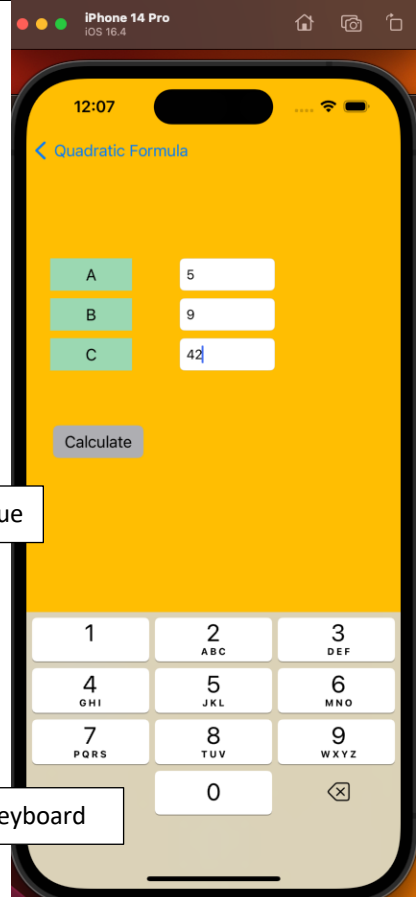
5. User message will have two different statements.
 - a. "Enter a value for A , B and to find X."
 - b. "The value you entered for A is invalid."
 - c. "The value you entered for B is invalid."
 - d. "The value you entered for C is invalid."
 - e. "There are no results since the discriminant is less than zero."
 - f. "There is only one value for X"
 - g. "There are two values for X"

IN WHICH CASE THESE MESSAGES WILL DISPLAY AS WE HAVE ONLY NUMERIC KEYBOARD AVAILABLE

5 Message

6 Calculated Value

7 Numeric Keyboard



Description – Function Scene	Marks
1. “Back” button with the correct label Should return to Button Scene	1
2. Three labels marked A,B and C along with three inputs for A, B and C <ul style="list-style-type: none"> a. Set the leading edge to 25 pixels for the label. b. Set the space between the label and input to 50 pixels c. A,B and C labels should be center justified 	5
3. Once pressed the function should calculate the value of X using the equation. Set the leading edge to 25 pixels for the button. Hint: Make sure A and B are real numbers <small>IF THESE NUMBERS ARE REAL THEN WHEN WILL BE A/B/C VALUES INVALID?</small>	5
4. Once pressed the clear button will reset all the values of A & B and will display a prompt to the user. “Enter a value for A and B to find C” Set the leading edge to 25 pixels for the message	5
5. Messages <ul style="list-style-type: none"> a. No message on entry to the form b. Display the correct message c. Set the leading edge to 25 pixels 	5
6. Calculated value displayed. <ul style="list-style-type: none"> a. Display the correct value of X b. Set the leading edge to 25 pixels 	2
7. Keyboard only displayed. Show and hide the keyboard. Only show the number pad	2
TOTAL GRADES FOR FUNCTION SCENE	25

This is the Lab Scene	
Add any color page to this controller with your profile picture and your name on the scene with an image of your favorite hobby or something that describes you – be creative	5
“Back” button	1
Navigate to Lab 2	3
Navigate to Lab 3	3
Navigate to Lab 4	3
Total Grades for Lab Scene	15