

## ICS4U1 - ASSIGNMENT #2 – Question 2

Document this program fully with a header (name, date, purpose) and appropriate comments. Check the marking scheme and when your program is completed, upload it to our Google class. You only have to upload the source file (the .cpp one, C++ Source) that contains your C++ code.

2. Complete Exercise #2 question #5 (points). Write a program that inputs  $n$  points (x,y). The user will input  $n$  and the  $x$  and  $y$  coordinates of those points. Input the points and use vectors to store the data. Calculate the slope between any two of the points that the user specifies. Repeat this selection of points until zero is entered. Name your project A2Q2.

Sample input and output:

```
How many points? 3
Input point #1
2
2
Input point #2
3
3
Input point #3
4
4
Select two points:
1
3
The slope of the line segment from (2,2) to (4,4) is 1.
Select two points:
0
BYE!
```

**Tentative due date: Friday April 17, 2020.**

A2Q2 - points

Problem	Criteria	Strand	Out of	Mark
Points	Program Header – Name Date Purpose	C	1	
	Comments – Variables Statements	C	2	
	Correct input & vector initialization	A	3	
	Correct slope calculation	A	4	
	Program terminates correctly	A	1	
	<b>Total</b>	<b>C</b>	<b>3</b>	
	<b>Total</b>	<b>A</b>	<b>7</b>	

