

Exam

Question 1

Question 1A: the function name is a poor choice for a few reasons, first it's a bit long, this can be shortened and it's not following the structure, as the code is referring to total number of products and the values. ①

Question 1B: The problems that need to be solve are as followed;

The login – display login, to allow the user to enter a username and password, then to add a failed attempt cap, so after the number of given attempts in his case would be 3 attempts, this will cause the user to be disabled from accessing the login until the given time has ended in this case 5 minutes. Then to allow access to the program if entered correctly (this is an If statement where there are multiple end results for the given statement, for example with this if it's false a banner would display stating how many attempts are left and that the details are correct or incorrect, where the number of attempts has been used, and how the login is incorrect if abiding certain requirements, for example if the user is allowed to have numbers or not in their username then they will be prompted to inform them that, they've used an incorrect login) when the user enters the correct details and the program is display, a menu will be displayed, and the user will be given choices to either be prompted to enter the number of products required once the user has given said information, then the results will be displayed for the user, and how the given information is incorrect if abiding certain requirements, for another example if the user is allowed to have lettering or not, then they will be prompted to inform them that, they've used an incorrect input and will be required to enter numbers only, the user must logout once they have finished with the program. ✓

specific?

Question 1C: To confirm to see whether or not the code is working will be as followed, firstly I would start with the beginning so the check the login I would enter data to the login four times, one correct to check if the user will then be login and three incorrect to confirm that the login will then be disabled for further use, until the given time has ended. ✓

Then on the main program screen, I'd check if the requirements for the program are working, if the user is allowed to enter numbers and lettering or just numbering or just lettering, I would do a few tests to confirm the efficiency of it, and if the prompts are displayed corresponding to the correct or incorrect data. ②

The last test would be to test the logout, once chosen the user should be sent back to the login, for another user, to use. ✓

Question 2:

Question 2A: The problems that need to be solve are as followed;

The first problem would be to display the menu with the given options "1.Calculate Area of Rectangle", "2.Calculate Area of Circle" and "3.Exit" with text under for the user to enter the input corresponding to the number of the chosen option, if the users input doesn't match the required input, then the user will be prompted to enter a desired option of the, three given options, the user will be prompted again of the three choices, once the user has enter one of three given options the program will display the corresponding result, if option one, the program will display the required means to calculate the area of a rectangle, or for option two to calculate the area of a circle, these will be displayed prompting the user to enter width and height of the rectangle and the program will take the chosen input and multiply them to then give the user the answer, if option three is chosen the program will be sent back to the menu for the next user or the same user to user/enter their input.

Question 3:

Question 3A: the program must be able to determine if the exact point, is within the square, using data provided the user enters the top left corner of the square and the width using this the program can determine the area of the square and then the user will enter the point and the program will then be able to determine whether or not the point is in the square.

10

invalid numbers?

0

//CAMERON ANTHONY DALLIMORE DAL14815894

using System;

namespace Exam_CameronDAL14815894

```

{
    class Program
    {
        //public static string { get; private set; } ?
        //public static string { get; private set; }
        //public static string { get; private set; }
        static void Main(string[] args)
        {
            //displaying the title of the current screen
            Console.WriteLine("Menu");
            //list of options available for ease
            Console.WriteLine("1 : Calculate area of a Rectangle");
            Console.WriteLine("2 : Calculate area of a Circle");
            Console.WriteLine("3 : Exit");

            //requesting option from user
            Console.Write("Please enter option:");
            int input = int.Parse(Console.ReadLine()); tryParse?
            //validating user to not enter incorrect number
            string Options = "Invalid value! Please enter a valid number";

            if (input == 1)
            {
                Options = "Please Enter Width"; ?
                Options = "Please Enter Height";
            }

            if (input == 2)
            {
                Options = "2 : Calculate area of a Circle"; ?
            }

            if (input == 2)
            {
                Options = "1 : Calculate area of a Rectangle";
                Options = "2 : Calculate area of a Circle";
                Options = "3 : Exit";
                Options = "Please enter option:";
            }

            Console.WriteLine(Options);

            Console.ReadLine();
        }
    }
}

```

only a menu structure.

Exam Marking ACCA4016 – Academic and Employability Skills 12th March 2019

Student: **Cameron Dallimore**

	Exam Date: 12 th March 2019	Marking Date: 15 th March 2019
Question	Max Possible Marks	Marks Achieved
1a	4	1 ✓
1b	8	6 ✓
1c	8	3 ✓
2a	20	10 ✓
2b	30	10 ✓
3a	20	0
3b	10	0
Total	100	30 ✓

Lecturer: G.P. Dawkins

