

Business Application Design Example Lab 1 Test

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Business Application Design Example Lab 1 Test

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Lab Test 1, Semester 2, 2016
ISYS2001 Business Application Design



Curtin University

School of Information Systems

LAB TEST 1

Semester 1, 2016

ISYS2001 Business Application Design

This paper is for Curtin students

This is an OPEN BOOK test

This test paper IS NOT to be released to student

Test Duration

90 mins

Reading Time

5 minutes

Students are permitted to write notes during reading time in the margins of the exam paper

Total Marks

50

Supplied by the Student

No calculators are permitted in this exam

Instructions to Students

This is an open book test. Students may use any textbook during this test.

Microsoft Visual Studio C# projects written in conjunction with this test must be compressed into a SINGLE zip archive and uploaded to Blackboard by the end of the test.

All design documentation must be drawn in this test booklet.

For Examiner Use Only

Q	Mark
1	
2	

Total _____

Test Cover Sheet

QUESTION 1.

- (a) A market operator buys apples from growers at a fixed price of \$2.50 per kilo. The operator provides a bonus for higher quality fruit. Apples are graded as "A", "B" and "C". Grade "C" receives the base rate, grade "B" a 5% bonus and grade "A" a 15% bonus.

Design an application that calculates the price paid for a given weight and grade of fruit. Your design should include a sketch of any forms and controls used by your application. The sketch should name and identify each type of control that appears on the form and follow the naming conventions used during the semester. The design also needs to validate all data entered, allow the user to clear all fields and exit the application. You also need to write pseudocode to express the tasks and steps required to display any messages.

(25 Marks)

QUESTION 2.

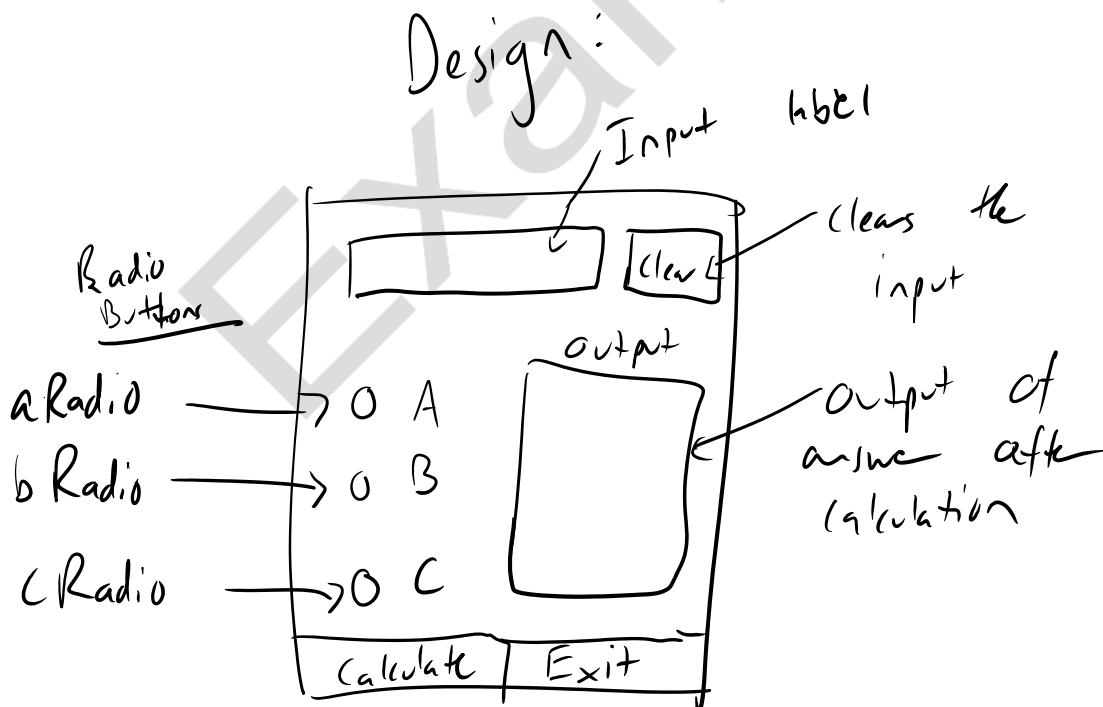
Create a C# application in Visual Studio 2010, that reads a list of names from a file. The names should be displayed in a ListBox control and then display the total number of names listed. The application should use the OpenFileDialog control to let the user select the file that contains the names.

(25 Marks)

Please use this page any blank pages that follow for your design.

Apples = \$2.50 (fixed price)

Bonus			
Apple Grady	Bonus	Money	
A	15%	or	$\times 1.15$
B	5%	or	$\times 1.05$
C	nil	or	$\times 1$



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Attached to the calculate Button

// Variables

decimal weightInput = Parsed User Input weight

decimal aBonusCheckbox = 1.15

decimal bBonusCheckbox = 1.05

decimal cBonusCheckbox = 1.00

decimal finalPriceOutput

// Main Algorithm

if (aRadio = checked)

{
 weightInput × aBonusCheckbox = finalPriceOutput
}

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```
else (b Radio = checked)
{
    weight Input x b Bonus Checkbox = final Price Output
}
else (c Radio = checked)
{
    weight Input x c Bonus Checkbox = final Price Output
}
```

Clear Button = Clear input on select

Exit Button = Close form on select

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Example

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Example

END OF TEST PAPER
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