



ICTPRG302

Apply introductory programming techniques

Assessment 5 of 6

Case Study & Demonstration

Assessor Guide



Assessment Instructions

Task Overview

Read each question carefully before typing your response in the space provided.

Important: Before commencing your work, you must update your *Student name* and *Student number* in the footer from **page 2** onwards.

Additional Resources and Supporting Documents

To complete this assessment, you will need:

- Learning Material
- Design Document Final
- Application Code

Assessment Information

Submission

You are entitled to three [3] attempts to complete this assessment satisfactorily. Incomplete assessments will not be marked and will count as one of your three attempts.

All questions must be responded to correctly to be assessed as satisfactory for this assessment.

Answers must be typed into the space provided and submitted electronically via the Learning Platform. Hand-written assessments will not be accepted unless previously arranged with your assessor.

Reasonable adjustment

Students may request a reasonable adjustment for assessment tasks.

Reasonable adjustment usually involves varying:

- the processes for conducting the assessment (e.g. allowing additional time)
- the evidence gathering techniques (e.g. oral rather than written questioning, use of a scribe, modifications to equipment)

However, the evidence collected must allow the student to demonstrate all requirements of the unit.

Refer to the Student Handbook or contact your Trainer for further information.



Please consider the environment before printing this assessment.

Case Study

Bounce Fitness prides itself on fostering innovation and delivering cutting-edge technological solutions to empower customers in their fitness journeys.

You are an IT Technician at Bounce Fitness. You are responsible for creating applications that reflect the organisation's commitment to excellence and seamless user experiences.

In this assessment, you are required to evaluate and test the application code written in Assessment 4.

Task 1

For this task you will need to record your screen while you are performing the testing of the application using the IDE features.

STEPS TO TAKE:

- a. Review your code based on the feedback your assessor provided you for the following two [2] documents in Assessment 4:
 - i. Completed Design Document Final from Assessment 4.
 - ii. The application code from Assessment 4.
- b. Open the developed code in an integrated development environment (IDE). It is recommended that you use Visual Studio Code as the IDE for this task and insert the code (if there were any updates based on the feedback received from your assessor you will need to insert the updated code).
- c. Evaluate the variables of the code using IDE features:
 - i. Examine the variables of the code to determine their current value
 - ii. Debug the code using debugging techniques
 - iii. Determine all errors in the variables of the code
 - iv. Make all necessary changes to the code to address each error determined
- d. Test the application using IDE features. To do this:
 - i. Set at least two test cases for the code
 - ii. Run each test case to ensure the code is functioning properly
 - iii. Determine all errors or issues that arise from each test case
 - iv. Make all necessary changes to the code to address each error determined
 - v. Run each test to ensure all errors are addressed
 - vi. Save and submit your video using the following naming convention:
<Student Name>_Video 2_Testing
- e. Use the **Test Report** template to document the actions taken and outcomes of the evaluation and testing of the application.
- f. Save and submit your test report using the following naming convention:
<Student Name>_Test Report

NOTE: You cannot complete Assessment 5 unless you have completed and received feedback for Assessment 4 on your Design Document Final and your application code from your assessment.

Assessor instructions: Students must evaluate and test the application code written in Assessment 4.

The acceptable responses must:

- Be within the specified word limit.

- Reflect the characteristics described in the exemplar answer.
- Include appropriate technical programming language when documenting changes and tests (e.g., using terminology such as 'variables', 'test cases', etc.)
- Use headers and subheaders that clearly and concisely indicate the topic the section covers.
- Whether there were changes required to be implemented on the code or not based on the Assessor's feedback on Assessment 4, the evidence that the student has reviewed the code and corrected it will be evident during the testing.

Benchmark answers, as well as instructions for the assessor, are provided in the **Test Report – Assessor Guide**.

ASSESSOR OBSERVATION FORM			
During this case study task:	YES/NO	Date Observed	Assessor's comments
1. The student opens the developed code in an integrated development environment (IDE)..	<input type="checkbox"/> YES <input type="checkbox"/> NO		
2. The student evaluates the variables of the code using IDE features: In demonstrating this:			
a. Examines the variables of the code to determine their current value.	<input type="checkbox"/> YES <input type="checkbox"/> NO		
b. Debugs the code using debugging techniques.	<input type="checkbox"/> YES <input type="checkbox"/> NO		
c. Determines all errors in the variables of the code.	<input type="checkbox"/> YES <input type="checkbox"/> NO		
a. Makes all necessary changes to the code to address each error determined	<input type="checkbox"/> YES <input type="checkbox"/> NO		
3. Test the application using IDE features. To do this:			
a. Set at least two test cases for the code	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
b. Run each test case to ensure the code is functioning properly	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
c. Determine all errors or issues that arise from each test case	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		

d. Make all necessary changes to the code to address each error determined	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
e. Run each test to ensure all errors are addressed	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A

Assessment submission checklist

Students must have completed all questions within this assessment before submitting. This includes:

1	Task 1 <ul style="list-style-type: none">- Video Recording- Test Report	<input type="checkbox"/>
---	--	--------------------------

Assessment feedback

Assessors are to indicate the assessment outcome as Satisfactory [S] or Not Yet Satisfactory [NYS].

Assessor comments:	<input type="checkbox"/> S	<input type="checkbox"/> NYS
--------------------	----------------------------	------------------------------


Congratulations, you have reached the end of Assessment 5!

© 2023 Precision Group [Australia]

No part of this resource may be reproduced in any form or by any means, electronic or mechanical, including photocopying or recording, or by an information retrieval system without written permission from Precision Group.

[Australia]. Legal action may be taken against any person who infringes their copyright through unauthorised copying.

These terms are subject to the conditions prescribed under the Australian Copyright Act 1968.

© UP Education Online Pty Ltd 2023

Except as permitted by the copyright law applicable to you, you may not reproduce or communicate any of the content on this website, including files downloadable from this website, without the permission of the copyright owner.

WARNING

This material has been reproduced and communicated to you by or on behalf of UP Education in accordance with section 113P of the *Copyright Act* 1968 [the Act].

The material in this communication may be subject to copyright under the Act. Any further reproduction or communication of this material by you may be the subject of copyright protection under the Act.

Do not remove this notice.