T-LEVELS | Institute for Apprenticeships & Technical Education

T Level Technical Qualification in Digital, Digital Production, Design and Development (Level 3)

Thursday 25 May 2023

Time 3 hours

Paper reference 19538

Core: Employer Set Project
Task 2 Identifying and fixing defects in existing code

You must have:
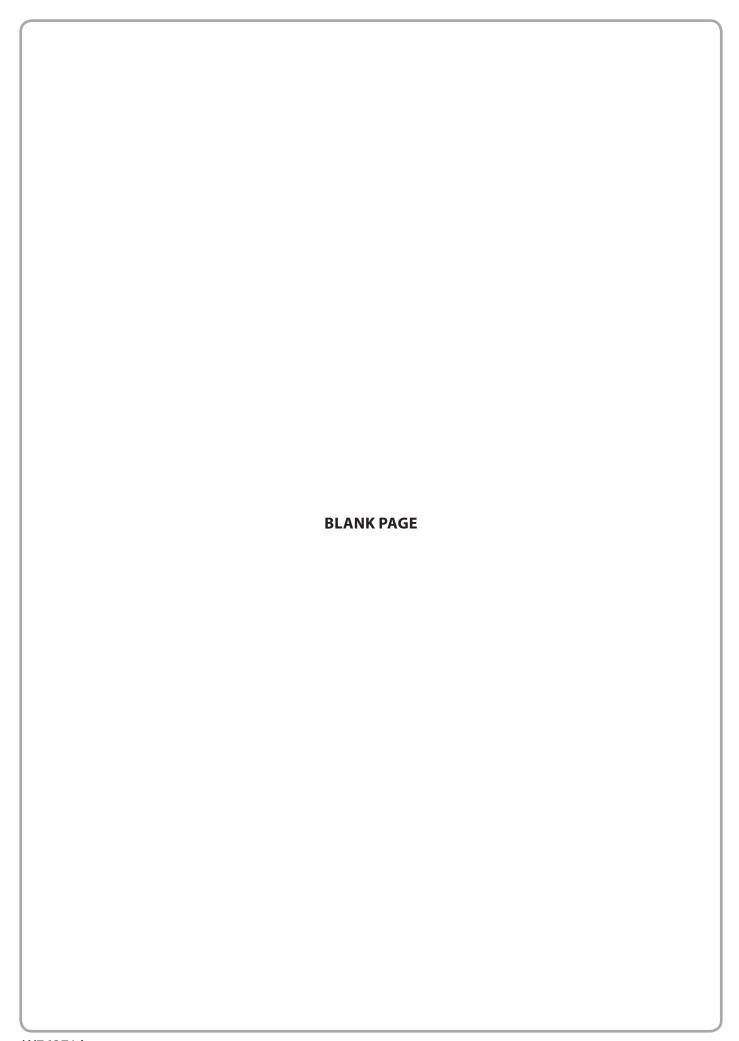Task2_Test_Log_Template.doc, Task2_NonWorkingCode.txt.

Information

- This booklet contains material for the completion of the set task under supervised conditions.
- This booklet is specific to each series and this material must only be issued to students who have been entered to undertake the task in the relevant series.
- This booklet must be kept securely until the start of the timetabled assessment.

Continue ▶

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Pearson

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Instructions for students

You must complete **ALL** parts of the activity within the assessment.

The task must be undertaken at the time and date specified by Pearson.

You will be given three hours for producing the outcomes for this task.

Your centre will advise you of when supervised breaks have been scheduled.

You are **not** permitted access to the internet during this task.

You are permitted to use **offline** versions of relevant software to produce evidence for this task.

Files provided for use during this activity:

• *Task2_Test_Log_Template.doc*

• *Task2_NonWorkingCode.txt*

Your work and any material provided must be kept securely at all times.

Set Task Brief

You are a member of the programming team that is developing a program to meet the requirements in the Set Task Information.

Your manager has asked you to look at some code that a Junior Software Developer has produced but is not yet functional. The code that is not yet functioning is provided for you in the *Task2_NonWorkingCode.txt* file.

The code should meet the requirements in the Set Task Information.

Activity

You will need to use:

*   the information provided in the Set Task Information

*   the non-functioning code provided in the file *Task2_NonWorkingCode.txt*.

You must:

*   produce and apply a test plan to identify the defects that are preventing the program code in the file *Task2_NonWorkingCode.txt* from functioning

*   apply a solution to fix the defects in the program code provided

*   document the process that you followed to fix the code.

When applying a solution to fix the defects you must:

*   ensure the code meets the requirements in the Set Task Information

*   use Python 3 programming language

*   follow accepted programming conventions

*   test your solution to ensure that it functions as expected.

Two files are provided for use during this activity:

*   *Task2_Test_Log_Template.doc*

*   *Task2_NonWorkingCode.txt*

(21)

Outcomes for submission

Save your code as PDF files **and** as .txt files.

Save your testing document as a PDF file.

All files should be saved in your folder for submission.

Use this naming convention:

Task2code_[doc #]_[Registration number #]_[surname]_[first letter of first name]

Task2_Test_Log_[Registration number #]_[surname]_[first letter of first name]

Set Task Information

Gurreb's BBQ has provided you with this information to develop your program.

Requirements

The program will be part of the new system's *Table management - orders and billing* module.

The program must allow the user to enter this information:

- Order details:

    - Server's name

    - Table number

    - Menu item ordered

    - The quantity of each item ordered

    - Details of any applicable discounts.

The program should then provide the user with a summary order. The summary should show:

- Order details including a list of menu items ordered

- Subtotal (before discounts)

- Final total (after discounts).

The program should output the summary to the screen.

The information should be formatted appropriately.

The program should be able to handle user errors.

Discounts

- Early bird discount (Monday – Friday 5pm – 7pm) – 15% discount

- Staff discount – 25% discount

Table number

- There are 10 tables in the restaurant.