



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

Thursday 9 November 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.docx, 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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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 3 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.docx
- 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 the 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.docx*
- *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 these naming conventions:

Task2Code_[Registration number]_[surname]_[first letter of first name]

Task2Test_Log_[Registration number]_[surname]_[first letter of first name]

Set Task Information

Snowy Animal Rescue has provided you with this information to develop the program.

Requirements

The program will be integrated into the charity's new customer website. The code will be part of a feature that provides information and advice about adopting a dog.

The program must allow the user to enter this information:

- dog's details:
 - size of dog
 - how active the dog will be
 - the type of food that they need.

The program should then provide the user with a summary of the predicted costs of owning a dog. The summary should show:

- dog's details
- approximate amount of food the dog should be given
- itemised lists of associated costs
- estimated monthly cost
- annual Subtotal (before vaccinations)
- annual Final total (after vaccinations).

The program should output the summary to the screen.

The information should be formatted appropriately.

The program should be able to handle user errors.

Feeding guide

Dry food	Wet food
Amount per day: <ul style="list-style-type: none">• Small dog - 180 g• Medium dog – 350 g• Large dog – 520 g	Amount per day: <ul style="list-style-type: none">• Small dog - 400 g• Medium dog – 800 g• Large dog – 1200 g
Cost: £0.30 per 100 g	Cost: £0.40 per 100 g

"Not Active" dogs should be given 10% less food per day.

"Very Active" dogs should be given 15% more food per day.

Annual Vaccinations

Vaccinations cost £70 per year.