Name:Click here to enter text.

You need to select **only 1** of the assessment challenges.

To complete the challenge you need to carry out abstract and decompose, produce a flowchart or flowcharts. You will then code it in your BYOB virtual pet, you need to evidence your code and comment on it in this assessment document. You have **2 hours** to complete your challenge.

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**Zuckerberg** **Lovelace** **Turing**

Your virtual pet needs to go to the toilet regularly.

Produce code that counts up to a maximum number for a variable with a suitable name.

At certain points the code will need to make different comments.

When the toilet sprite is clicked the toilet your pet goes to the toilet and variables are altered.

If the variable hits the maximum number your pet should respond. (Die or for more challenge, wee itself )

Your virtual pet needs to go to the toilet regularly.

Produce code for the virtual pet using a variable called ‘toilet’ that counts up to a maximum number

When that variable reaches different levels, your pet should output some responses.

If the variable hits the maximum number your pet should respond. (Die or for more challenge, wee itself )

Using a timer which controls day and night, the timer will go to 500, at 250 the stage should go to night-time mode.

Your virtual pet needs to go to the toilet regularly. But also just at bedtime automatically.

Use a list to produce different comments as the variable counter increases.

If the variable counter reaches its maximum your pet will wee itself and then run away from home with embarrassment.

When the toilet sprite is clicked the virtual pet will go to this and the variable number will respond accordingly.

**Max Mark = 34 Max Mark = 50 Max Mark = 68**

I have chosen to attempt challenge**;** Choose an item.

**Decompose**

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| |  | | --- | | **Abstract the important information and decompose the problem to list key instructions or use structured English/pseudocode.** | |  | |

**Flowchart**

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| [**Click here to create the algorithm.**](https://www.draw.io/)  **Create the algorithm or algorithms and paste/insert them into the area below.** |
|  |

**Project evidence**

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| |  |  | | --- | --- | | Code | Virtual Pet | |  |  | | Comment on the code. – This is your chance to explain your code  The use of keywords and good use of literacy will be assessed. | | |  | | |

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| |  |  | | --- | --- | | Code | Virtual Pet | |  |  | | Comment on the code. – This is your chance to explain your code  The use of keywords and good use of literacy will be assessed. | | |  | | |

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| |  |  | | --- | --- | | Code | Virtual Pet | |  |  | | Comment on the code. – This is your chance to explain your code  The use of keywords and good use of literacy will be assessed. | | |  | | |

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| |  |  | | --- | --- | | Code | Virtual Pet | |  |  | | Comment on the code. – This is your chance to explain your code  The use of keywords and good use of literacy will be assessed. | | |  | | |