Target for this cycle 2.3

Name:Click here to enter text.

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| **Overview.****You will need to decompose and then complete an algorithm (or create your own algorithm) to the following problem…****Challenging**The micro bit will show an arrow that you can use to spin, the arrow will land on the person who will answer a question. When a button is pressed the program will generate a random true or false question from a choice of 3. The user will then use a and b to choose true or false, the micro bit will respond with correct or incorrect. The Micro bit will keep score and if they get it correct will add one to score. If AandB is pressed it will tell the user their score. |

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You have Chosen to complete the **Challenging** option and given yourself a chance at gaining **grade 6**

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| **Decompose your problem** |
| Step 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |
| **Teacher Use Only: How much guidance was given and Grade Achieved** | **None** | **4** |
|  |
| **Algorithm. Green Boxes are complete, you need to complete the yellow boxes****Complete the Algorithm and then for one question (output 1) add the algorithm for checking if it is correct or not and responding****Help: Rounded = Terminator, Rectangle = Process, Parallelogram = Output or Input**  |
| Show ArrowHas Generate Output Store Is RNIs RN=0 Output Question 2Output  |
| **Teacher Use Only: How much guidance was given and Grade Achieved** | **None** | **4** |
|  |
| Programming. |
| Paste your completed code(blocks) here: (*Insert>screenshot>Screen Clipping)* | **Identify the selection and iteration** |
|  |
| **Describe how your code works** |
|  |
| **What errors did you get how did you fix them?** |
|  |
| **Explain your code, try to explain definite and indefinite iteration, recursion** |
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| **Teacher Use Only: How much guidance was given and Grade Achieved** | **None** | **4** |

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