Target for this cycle Choose an item.

Name:Click here to enter text.

**Basic Skills Revisited**

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| |  |  |  |  | | --- | --- | --- | --- | | **What is a variable** | | **How does it differ from a constant?** | | |  | |  | | | **Variable and Constants** | | | | | Pseudocode examples | Flowchart Examples | | Python Examples | |  | . | |  | |  |  | |  | |  |  | |  | | **What is an input? Why I are they needed?** | | | | |  | | | | | **Input examples** | | | | | Pseudocode examples | Flowchart Examples | | Python Examples | |  |  | |  | |  |  | |  | |  |  | |  | | **What is an OUTPUT? Why I are they needed?** | | | | |  | | | | | **OUTPUT examples** | | | | | Pseudocode examples | Flowchart Examples | | Python Examples | |  |  | |  | |  |  | |  | |  |  | |  | | Class Challenge 1 – Python Code | | Class Challenge 2 - Flowchart | | |  | |  | | |

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| **INDEPENDENT LEARNING**   |  |  | | --- | --- | | **What challenge are you attempting? Zuckerberg, Lovelace, Turin?** | **Zuckerberg** | | **Decompose (list inputs processes and outputs)** | **Code** | |  |  | | **Pseudocode** | |  | |

**Functions, Errors and Debugging.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  | | --- | --- | --- | --- | | **What is a function?** | | **Find out how it is possible to write our own functions/procedures.** | | |  | |  | | | **Errors** | | | | | Errors | Description | | Python Example | | **Syntax** |  | |  | |  | The code will run up until the point the error is found and it will then give you a message to help you debug. | |  | |  |  | |  | | **What is Debugging? What are the Rules of Debugging?** | | | | |  | | | | |

**Selection**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  | | --- | --- | --- | --- | | **What is a selection** | | **Why is it important** | | |  | |  | | | **Selection** | | | | | Pseudocode examples | Flowchart Examples | | Python Examples | |  |  | |  | |  |  | |  | |  |  | |  | | Class Challenge 1 – Python Code | | Class Challenge 2 - Flowchart | | |  | |  | | |
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| **INDEPENDENT LEARNING**   |  |  | | --- | --- | | **What challenge are you attempting?** | **Zuckerberg** | | **Decompose (list inputs processes and outputs)** | **Code** | |  |  | | **Pseudocode** | |  | |

**Definite Iteration. (FOR LOOP)**

|  |  |  |  |
| --- | --- | --- | --- |
| **What is definite iteration** | | **When is it used?** | |
|  | |  | |
| **Definite iteration** | | | |
| Pseudocode examples | Flowchart Examples | | Python Examples |
|  |  | |  |
|  |  | |  |
|  |  | |  |
| Class Challenge 1 – Python Code | | Class Challenge 2 - Flowchart | |
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| **INDEPENDENT LEARNING**   |  |  | | --- | --- | | **What challenge are you attempting?** | **Zuckerberg** | | **Decompose (list inputs processes and outputs)** | **Code** | |  |  | | **Pseudocode** | |  | |

**Indefinite Iteration. / Condition controlled (While LOOP)**

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| --- | --- | --- | --- |
| **What is indefinite iteration or condition controlled iteration** | | **When is it used?** | |
|  | |  | |
| **Definite iteration** | | | |
| Pseudocode examples | Flowchart Examples | | Python Examples |
|  |  | |  |
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|  |  | |  |
| Class Challenge 1 – Python Code | | Class Challenge 2 - Flowchart | |
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| **INDEPENDENT LEARNING**   |  |  | | --- | --- | | **What challenge are you attempting?** | **Zuckerberg** | | **Decompose (list inputs processes and outputs)** | **Code** | |  |  | | **Pseudocode** | |  | |



