Target for this cycle Choose an item.

Name:Click here to enter text.

**Basic Skills Revisited**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| **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 |
|  |  |

 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **INDEPENDENT LEARNING**

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

 |

**Functions, Errors and Debugging.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| **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**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| **What is a selection** | **Why is it important** |
|  |  |
| **Selection** |
| Pseudocode examples | Flowchart Examples | Python Examples |
|  |  |  |
|  |  |  |
|  |  |  |
| Class Challenge 1 – Python Code | Class Challenge 2 - Flowchart |
|  |  |

 |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 |
|  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **INDEPENDENT LEARNING**

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

 |

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

|  |  |
| --- | --- |
| **What is indefinite iteration or condition controlled iteration** | **When is it used?** |
|  |  |
| **Definite iteration** |
| Pseudocode examples | Flowchart Examples | Python Examples |
|  |  |  |
|  |  |  |
|  |  |  |
| Class Challenge 1 – Python Code | Class Challenge 2 - Flowchart |
|  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **INDEPENDENT LEARNING**

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

 |



