**THE ALIENS PROGRAMMING LANGUAGE**

Documentation

Version 1.0

Friday, August 28, 2020

//Content of documentation

1. Invoking the Interpreter
2. The Interpreter and Its Environment
3. Variables in Aliens
   1. Numbers

>>>> here copy a terminal exemple

* 1. Strings

>>>> here copy a terminal exemple

* 1. Lists

>>>> here copy a terminal exemple

1. Conditions

>>>> here copy a terminal exemple

1. Loop Statements
   1. @loop(start=0,end) as n{...}

>>>> here copy a terminal exemple

* 1. @while(condition){..}

>>>> here copy a terminal exemple

* 1. Enumerable.loop(item){...}

>>>> here copy a terminal exemple

* 1. enumerable.loop(e,item){..}

>>>> here copy a terminal exemple

1. Defining Functions

>>>> here copy a terminal exemple

1. How to import a library?
2. Standard library
   1. Type Checking Functions

|  |  |  |
| --- | --- | --- |
| Function | Mining | example |
| $isnumber | return true if value is number | num= 10  test = $isnumber(num)  show(test)  >>>1 |
| $isalpha | return true If all characters in the string are alphabet. | Text= “Aliens”  test = $isalpha(Text)  show(test)  >>>1 |
| $isnumber | return true if value is number | num= 10  test = $isnumber(num)  show(test)  >>>1 |
| $isequal | return true if two values are equals | Text1= “mars”  Text2= “earth”  test = $isequal (Text1, Text2)  show(test)  >>>0 |
| $ismatch | return true if value respect regex expression | Text1= “Aliens”  test = $ismatch(text, “[A-z]\*”)  show(test)  >>>1 |

* 1. Strings Functions

|  |  |  |
| --- | --- | --- |
| Function | Mining | example |
| [str].lower() | return text to lowercase | Text= “ALIENS”  newText = Text.lower()  show(newText)  >>>aliens |
| [str].upper() | return text to uppercase | Text= “Aliens”  newText = Text.upper()  show(newText)  >>>ALIENS |
| [str].split(character/text) | return splitting text by character or text | Text= “Aliens Language”  newText = Text.split(“ ”)  show(newText[0])  >>> Aliens |
| [str].len() | return length of text | Text= “Aliens”  length = Text.len()  show(length)  >>>6 |
| [str].count(value) | return number of times the text is present | Text= “Aliens Language”  times = Text.count (“e”)  show(times)  >>> 2 |

* 1. List basic Functions

|  |  |  |
| --- | --- | --- |
| Function | Mining | example |
| [list].add(object) | add object to list | num= 10  test = $isnumber(num)  show(test)  >>>1 |
| [list].insert(object,index) | insert object into list | Text= “Aliens”  test = $isalpha(Text)  show(test)  >>>1 |
| [list].remove(object) | remove object from list | num= 10  test = $isnumber(num)  show(test)  >>>1 |
| [list].reverse() | return list reverse | Text1= “mars”  Text2= “earth”  test = $isequal (Text1, Text2)  show(test)  >>>0 |
| [list].size() | return size of list | Text1= “Aliens”  test = $ismatch(text, “[A-z]\*”)  show(test)  >>>1 |
| [list].clear() | Delete all element of list |  |

Chapiter 5: Introduction

Chapiter 6: Introduction

Chapiter 7: Introduction