STONE RIVER eLEARNING

Programming Syntax Cheat Sheet
Version 1.0

STEP NAME	LANGUAGE	SYNTAX

Start of the Code	**C++**	#include <iostream>
		using namespace std;
		int Main() {
		}

	Java	public static void main(String args[]) //All the code should be enclosed inside a class as well
	Python	No specific start required
	PHP	<?php ?>
	Javascript	<script> </script>
Declaring a Variable	**C++**	int var_1; char var_2;
	Java	public int var_1; public char var_1;
	Python	var_1=2 var_2= "This is a string"
	PHP	$var_1 = 2 ; $var_2="This is a string" ;
	Javascript	var var_1=2; var var_2="This is a string";

Function/Method Declaration	**C++**	int function func_01 {
		int var_1;
		char var_2;
		}

If Statement	**Java**	```public static func_01 {` `public int var_1;` `public char var_1;` `}```
	Python	```def func_01 :` ` var_1=2` ` var_2= "This is a string"```
	PHP	```function func_01 {` `var_1=2 ;` `var_2= "This is a string";` `}```
	Javascript	```function func_01 {` `var var_1=2;` `var var_2="This is a string";` `}```
	C++	```if (x == 100)` ` cout << "x is 100";` `else` ` cout << "x is not 100";```
	Java	```if(x < 20){` ` System.out.print("This is if statement");` ` }else{` ` System.out.print("This is else statement");` ` }` ` }```
	Python	```a = 1` `if a > 5:` ` print "This shouldn't happen."` `else:` ` print "This should happen."```
	PHP	```if ($t < "20") {` ` echo "Have a good day!";` `}```
	Javascript	```if (hour < 18) {` ` greeting = "Good day";` `} else {` ` greeting = "Good evening";` `}```
For Loop	**C++**	```for (int n=10; n>0; n--) {` ` cout << n << ", ";` ` }```
	Java	```System.out.print("\n");` ` String [] names ={"James", "Larry", "Tom", "Lacy"};` ` for(String name : names) {` ` System.out.print(name);` ` System.out.print(",");` ` }```

Taking Input from User	**Python**	```for item in items: print(number, item) number = number + 1```
	PHP	```for ($x = 0; $x <= 10; $x++) { echo "The number is: $x "; }```
	Javascript	```for (i = 0; i < cars.length; i++) { text += cars[i] + " "; }```
	C++	```cin >> x; //Takes the value from user and stores in x```
	Java	```Scanner user_input = new Scanner(System.in); String first_name; System.out.print("Enter your first name: "); first_name = user_input.next( );```
	Python	```person = input('Enter your name: ') print('Hello', person)```
	PHP	```//In PHP taking input from user will need a PHP form <form action="welcome.php" method="post"> Name: <input type="text" name="name"> E-mail: <input type="text" name="email"> <input type="submit"> </form>```
Write Operation/ Output	**C++**	```cout << "Output sentence"; // prints Output sentence on screen cout << 120; // prints number 120 on screen cout << x; // prints the value of x on screen```
	Java	```System.out.print(name);```
	Python	```person = input('Enter your name: ') print('Hello', person)```
	PHP	```echo "Hello world!"; echo "I'm about to learn PHP!";```
	Javascript	``` My First Web Page My first paragraph. <script> document.write(5 + 6); </script>```
Arrays	**C++**	```int foo [5] = { 16, 2, 77, 40, 12071 };```
	Java	```dataType[] arrayRefVar = new dataType[arraySize];```
	Python	```['red', 'green', 'blue'] [1, 3, 5, 7, 9, 11] ['silly', 57, 'mixed', -23, 'example'] //These are Python lists```
	PHP	```$cars = array("Volvo", "BMW", "Toyota");```
	Javascript	```var cars = ["Saab", "Volvo", "BMW"];```