|  |  |
| --- | --- |
| Generic PL Keywords (Java) | <Carbon Lang> Keywords |
| Data Types  int  float  string  bool | number (int and float)  -  string  bool |
| Conditional Statements  if/else/else if  switch | if/else/furthermore  - |
| Iterators (Loops)  for  while  do while | for  while  - |
| Object Oriented Programming  class  extends  this  super  static  new  interface  constructor | class  extends  this  super  static  new  -  function with className |
| Access Modifiers  public  private  protected | public  hidden  - |

|  |
| --- |
| Variable Declaration  Variables are declared using data types  E.g; String name = ‘Hassan’; |
| Function Declaration  function |
| Function Return Types  Written after function keyword (when declaring function)  return (inside a function to return value)  void (to declare no return from function) |

Punctuators

[ ]  { }  ( )  ,  .  ;

Operators

+ -  /  \*  %

=  +=  -=  \*=  /=

>  <  >=  <=  == !=

++  --

&& || !

Rules & Syntax

Comments

# <Single line Comment>

## <Multi line Comment> ##

Variable Declaration

String name;

number num = 2;

Function Declaration

function String printTwoNames(String a, String b) {

String c = a + b;

return c;

}

Conditional Statements

if (condition) {

#body

} furthermore (condition) {

#body

} else {

#body

}

Iterators / Loops

for (number i = 1; I < 10; i++){

print(i);

}

while(condition){

# body

}

Object Oriented Programming

class A {

String name;

A () {

# body

}

}

class B extends A { // class B extends to class A

B() {

super(); // constructor is called of class A

}

}

Teacher additions.

Implement the following

* Single class inheritance
* Abstract classes
* Final classes
* Exception handling
* 1D arrays

Link to CFGS and sets:

https://onedrive.live.com/view.aspx?resid=171D71D02281904C!61253&ithint=file%2cdocx&authkey=!AJ8PVS70aZ8xyc0