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| --- | --- |
| **Generic PL Keywords (Java)** | **<W Lang> Keywords** |
| **Data Types**  int  float  string  bool | num (int and float)  -  string  bool |
| **Conditional Statements**  if/else/else if  switch | if/else/elif  - |
| **Iterators (Loops)**  for  while  do while | for  while  - |
| **Object Oriented Programming**  class  extends  this  super  static  new  interface  constructor | class  ::  this  super  static  new  interface  constructor |
| **Access Modifiers**  public  private  protected | public (by default)  sealed  - |

|  |
| --- |
| **Variable Declaration**  Variables are declared using data types  E.g; String x = “University” |
| **Function Declaration**  func |
| **Function Return Types**  returns (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;

num number = 2;

**Function Declaration**

func printTwoNames(String a, String b) returns(String) {

String c = a + b;

return c;

}

**Conditional Statements**

if (condition) {

//body

} elif (condition) {

//body

} else {

//body

}

**Iterators / Loops**

for (num i=1; i<10; i++ ){

display(i);

}

while(condition){

//body

}

**Object Oriented Programming**

class A {

String name;

Constructor () {

# body

}

}

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

constructor() {

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

}

}