|  |  |
| --- | --- |
| **ORIGINAL** | **SIMPLIFIED** |
| Setup() { statements} | Start setup.  Statements.  End setup. |
| Loop(){ statements } | Start loop.  Statements.  End loop. |
| If (a>b &b<c || c == d){ statements} | If a > b and b < c or c == d.  Then statements.  End if. |
| If (a>b &b<c || c == d){ statements}  else {statements} | If a > b and b < c or c == d.  Then statements.  Else statements.  End ifelse. |
| For (int x = 0; x < 100; x++){statements} | For x is 0 increasing to 100.  Do statements.  End for. |
| Switch (var) { case 1: statements break;  case 2: statements break;  default: statements } | Switch var.  Case 1 do statements.  Case 2 do statements.  Default do statements.  End switch. |
| While (expression) { statements} | While expression.  Do statements.  End while. |
| Do { statements} while (expression); | Start dowhile.  Do statements.  While expression.  End dowhile. |
| Break; Continue; Return; Goto functionA; | Break. Continue. Return. Goto functionA. |
| Int x = 5; | X is 5. |
| + - \* / | + - \* / |
| X = 7 % 5; // result is 2 | X is remainder of 7 / 5. |
| pinMode( ledPin, OUTPUT/INPUT); | Set pinMode of ledPin to OUTPUT/INPUT. |
| digitalWrite(ledPin,value); analogWrite(ledPin,val); | digitalWrite value to ledPin.  analogWrite value to ledPin. |
| digitalRead(ledPin); analogRead(ledPin); | digitalRead value from ledPin.  analogRead value from ledPin. |