

```
Project {
Int main(void){
#here goes the code#
}
=========DATATYPE==============
Int \rightarrow Int
dobl → Double
bol → Boolean
str → String
=======DECLARATION OF VARIABLES ========
A: int; B: dobl; C: bol; D: str;
                               A,B,C: str;
AA: str = "hello"; Cadena: str = "";
Boleano: bol = true; Boleano: bol = false;
Numero: int = 1;
Decimal: dob1 = 0.12;
==========COMMENTS============
To comment a line (##):
## this is a comment
to comment on a paragraph (#):
# this is other
Comment #
```



```
==========OPERATORS=============
Logical_operator: [and | or]
Relational_operator: [\langle | \rangle | == | \rangle = | \langle = | | = ]
Condition: [A operator relational B]
Print:
print("hello world");
print("hello world" + "world" + variable);
print(variable);
FOR:
for: 0:10{
for(i:int=0;i<numero;++){</pre>
}
IF:
if: condition{
if: condition logical_operator condition{
}
Example:
if: a<b{</pre>
if: a == "hello" and b>0 or b<5{
}
```



IF-ELSE:

```
if: condition{
}else{
}
```

DO-WHILE:

```
do:{
}while: condition;

do:{
}while: condition logical_operator condition;
```

SWITCH:

```
switch: variable{
case 1:{};
case 2:{};
}
switch: str variable{
case "hello":{};
case "world":{};
}
```

WHILE:

```
while: condition{
}
while: condition logical_operator condition{
}
```



```
======== ARITHMETIC OPERATIONS========
a:dobl;
a=[operation];
______
a:dobl=[operation];
______
a:int;
a=[operation];
Note: There are errors when using operations of the form (a: int =
[operation];) with variables of type int, it is recommended to try
with variables of type dobl.
_____
a:dobl;
b:dob1;
c:dob1;
a=[b+c];
a=[c-b];
a=[c*b];
a=[c/b];
```



Code Example:

```
ejemplo {
int main(void){
suma:dobl;
a:int=1;
b:int=1;
suma=[a+b];
resta:dobl;
a=3;
b=5;
resta=[a-b];
Operacion:dobl=[-(1+1*6/3-5+7)];
print("la suma es: "+suma+" la resta es: "+resta+"
operacion: "+Operacion);
}
}
01/19/2021
* Lexical analysis working ( Analizar_lexico_presiso(); in
Controller class ).
* Syntactic analysis working ( Analizar_sintaxis(); in Controller
class ).
* Incomplete compiler.
* There is no exact error capture.
* Only the following statements were compiled:
     * Declaration of variables.
     * Print ();
     * Arithmetic operations.
```