Scope & Operators in Arduino

CSE- 315

Peripherals & Interfacing

Abdullah Al Omar

Lecturer, CSE, UAP

Scope

There are three types of scope in Arduino environment.

- Global Scope
- Formal Scope
- Local Scope

Global Scope:

```
Int T , S ;
float c = 0 ; Global variable declaration
void setup () {
}
void loop(){
}
```

Formal Scope:

Suppose void A() is a function:

```
void setup(){
  Serial.begin(9600);
}
void loop() {
            int i = 2;
            int j = 3;
            int k;
            k = A(i, j); // k now contains 6
            Serial.println(k);
            delay(500);
}


int A( int x, int y){
            int result;
            result = x * y;
            return result;
}
```

Formal scope variable:

Local Scope:

- The variable which resides in the function only. So the variable can only be used in the function.
- This variables are not valid in outside of the function.

```
Void loop () {
    int x , y ;
    int z ; //Local variable declaration
    x = 0;
    y = 0; // initialization
    z = 10;
}
```

Operators

There are five types of operator in Arduino:

1. Arithmetic Operator
2. Comparison Operator
3. Boolean Operator
4. Bitwise Operator
5. Compound Operator

Hand Notes

Please make sure to have a pen and paper with you.

- Resource Link- https://www.arduino.cc/reference/en/

Thank you