

Variable Declaration

```
str customerName; // data type
must be declared
str customerName = "Name";
const str constantVariable =
"Value";
```

Primitive Data Types

date	dd/mm/yyyy
enum	named list of literals
guid	globally unique identifier
int	32-bit wide integer
int64	64-bit wide integer
real	number values with decimals
str	String
timeOfDay	number of seconds since midnight
utcDateTime	Combination of date and timeOfDay

Access Identifiers

[public]	Can be called from anywhere
[protected]	called from methods in class/subclass
[private]	only called in method where declared

Printing InfoLog to Screen

```
info("This is an info log
message.");
```

Error Handling

```
throw error("This is an
error.");
```

Try...Catch

```
try
{
//Run some code
}
catch (Exception::Numeric)
{
info(' Found a Numeric exception. ');
}
catch
{
info(' Caught an exception');
retry;
}
finally
{
// Executed no
matter how the try block exits.
}
```

Assignment Operators

```
= int i = 1;
+= int i; i+=1;
++ int i; i++;
-= int i; i-=1;
-- int i; i--;
```

Arithmetic Operators

```
<< int a = 1<<2; \\(1 x 2 x 2)
>> int a = 1>>2; \\(1/2/2)
* multiplies
/ divides
div divides left value by right value
mod divides with a remainder
~ performs a binary NOT operation
& performs a binary AND operation
^ Binary XOR operation
| binary OR operation
+ addition
- subtraction
? int x = 4; result = (x ==5) ?
";
```

Relational Operators

```
Like SQL statement, returns criteria if
true
== a==b \\ true
!= a!=b \\true
>= a>b
<= a<=b
> a>b
< a<b
&& a<b && b>c \\ AND
|| a>b || b>c \\ OR
! a ! b \\ NOT
```



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If Statement

```
if (x == 5)
{
    info('x equals
five');
}
```

If...Else Statement

```
if (x == 5)
{
    info('x equals five');
}
else
{
    info('x does not equal five');
}
```

Switch Statement

```
switch (x){
case 5:
//do something
break;
case 10:
//do something
break;
default:
//do something
break;}
```

While Loop

```
int loopCount = 1;
container cont;
while (loopCount <= conlen -
(cont)) {
print conpeek(c ont ,lo opC -
ount);
loopCount = loopCount + 1;
}
```

For Loop

```
for (int i=1; i<=100; i+=1){
print ra[i];
}
```

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