X++ D365 (2023) Cheat Sheet

by evielution1991 via cheatography.com/177129/cs/36989/

Variable Declaration

```
str customerName; // data type must be declared
str custom erName = " Nam e";
const str consta ntV ariable = " Val ue";
```

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
utcDat eTim e	Combination of date and timeOfDay

Access Identifiers

[public]	Can be called from anywhere
[prote-cted]	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 (Excep tio n:: Num eric)
{
info(' Found a Numeric except - ion.');
}
catch
{
info(' Caught an except ion');
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 conpee k(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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