```
// == => complete equality check for value and type
// != => complete inequality check for value and type
// > < >= <= are also comparsion operators</pre>
```

Control structures

```
// ----- CONTROL STRUCTURE -----
// CONDITIONALS
// IF ELSE IF ELSE
if (x < 10) {
writeln("x is smaller than 10");
} else if (x > 10) {
    writeln("x is bigger than 10");
    writeln("x is equals to 10");
     // break => remember to include break below each case, otherwise logic will flow through after each case statement
    // default => represents the default case
int y = 5;
switch (y) {
        println("y is equals to 1");
        break;
    case 2:
       println("y is equals to 2");
    case 3:
       println("y is equals to 3");
         break;
        println("y is equals to 4");
       break;
    case 5:
        println("y is equals to 5");
    default:
        println("welcome to the default case where y isn't 1 to 5");
// L00PS
// FOR LOOPS
for (int i=0; i<1000; i++) { // allows creation of basic for loops
    writeln(i);
    // .. => creates a continuous range that is first-value inclusive and last-value exclusive // foreach => allows for iteration over a created loop or iterable data structure
    // foreach_reverse => allows for iteration over a created loop or iterable data structure in reverse order
         writeln(n);
foreach_reverse (n;1..1000) {
   if (n % 2 == 1) {
   writeln(n); // odd
         writeln("even!");
// WHILE LOOPS
while (n < 10000) {
// DO WHILE LOOPS
do {
n -= (n/2);
} while (n>0);
```