SYNTAX OF A for LOOP

```
x <- 7
if(x >= 10) {
  print("x exceeds acceptable tolerance levels")
} else if(x >= 0 & x < 10) {
  print("x is within acceptable tolerance
levels")
} else {
  print("x is negative")
[1] "x is within acceptable tolerance levels"
```

Remember this extended if...else statement?

Let's implement it into a for loop

SYNTAX OF A for LOOP

```
x \leftarrow c(-1, 7, 8, 11)
tolerance <- vector(mode = "character",
                      length = length(x)
for (i in seq_along(x)) {
  if(x[i] >= 10) {
    value <- "x exceeds acceptable tolerance levels"
  } else if(x[i] >= 0 & x[i] < 10) {</pre>
    value <- "x is within acceptable tolerance levels"
  } else {
    value <- "x is negative"</pre>
  tolerance[i] <- value</pre>
```

- 1. Vector to analyze
- 2. Initiate output shell
- 3. For each element in our x
- 4. Assess test expressions, execute relevant statement, and save as value

5. For that respective element add the value in the corresponding element in out output shell