# Lesson Element

# Truth Tables – Task Sheet

1. Write the truth tables for the expressions

NOT (A AND B)

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

and ((NOT A) OR (NOT B))

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

1. What do you notice about these tables?
2. Design and create a program to output the value of a after the statement
IF (a < b) OR (b < c) THEN a = b
has been executed.
3. Decide on suitable test data for this program giving a reason for each combination of values for a, b and c, give your expected result and the actual result for each.

| Values | Reason | Expected | Actual |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |
|  |  |  |  |
|  |  |  |  |