



delphi

project development intermediate delphi course

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Delphi Intermediate Chapter 1:

What is an Algorithm?

An algorithm is a type of code; however this type of code is not language specific. Meaning that all the syntaxes that are specific to a type of code fall away, thus creating a universal code, that no matter what language a programmer is proficient in, he/she could understand. In your final examinations at schools your project may very well be given as an algorithm, why because it is possible that many other schools have been given the same question but program in a different language.

The Question:

A catering agency for events has to make sure they order enough biscuits and scones for any event. It has been determined that on average each attendee at an event will consume two biscuits and one scone. The biscuits can only be ordered in packs of containing 16 biscuits and the scones must be ordered by the dozen. The agency would like to have a computer program written that will allow her to enter the expected number of attendees and then be told by the program how many packets of biscuits to order and how many dozen scones to order. This is the algorithm required to create such a program.

– Derived from a Trinity House IT Examination.

The Algorithm:

```
Input << People Number
Biscuits << Input X 2
Biscuits << Biscuits / 16 "Rounded off".
Scones << Input
Scones << Scones / 12 "Rounded off".
Output << "Purchase "+Biscuits+" Biscuit Packets" (New Line) "Purchase "+Scones+" Scones
```

Though this is a simple algorithm this basically sums up what an algorithm is. Throughout the tutorials you will encounter many algorithms in place of actual Delphi code. NOTE: algorithms are often the best way to learn how to code something as it is not the actual code and requires you to think about exactly what you are typing.

Delphi Intermediate Chapter 2:

Trace Tables:

On the next tutorial we will cover what a trace table is and how to create one and when to use one. To download the next tutorial: [Click Here!](#)