

13 User-defined data types – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

13.1 To make code clearer and stop illegal values being stored.

13.2 A type whose values are a fixed list of named constants.

13.3 Days of the week, colours, or status codes (any one).

13.4 The memory address of another variable.

13.5 To reach the variable it points to.

13.6 With a **STRING** you could store any text at all, including typos like "Green" or a meaningless value. The enumerated type allows only **Red**, **Amber** or **Green**, so illegal states are impossible and the code is clearer.

13.7

```
TYPE Suit = (Hearts, Diamonds, Clubs, Spades)
DECLARE s : Suit
s ← Hearts
```