## 002 An algorithm a day...

## Algorithm Question

If Monday $=0$, Tuesday $=1$ etc...
...write an algorithm in pseudocode which:

- Asks the user to enter a number,
- Outputs the day that the number represents,
- Validates the number so that an error message displays if the number is not a valid weekday number.


## Algorithm Example Answer

If Monday $=0$, Tuesday $=1$ etc...
...write an algorithm in pseudocode which:

- Asks the user to enter a number,
- Outputs the day that the number represents,
- Validates the number so that an error message displays if the number is not a valid weekday number.
***There are always different ways to solve a problem. This algorithm is just an example. What is important is that the logic is correct!***

LOGIC:

- Number INPUTTED and STORED
- Multiple IF / CASE statements to decide which day based on inputted number AND an OUTPUT statement to display the day to the user
- An ELSE / CASE to handle numbers below 0 and above 6 with an error message to inform the user of the invalid entry.

EXAMPLE ALGORITHM:

```
INPUT number
IF number == 0 THEN
    DISPLAY "Monday"
ELSE-IF number == 1 THEN
    DISPLAY "Tuesday"
ELSE-IF number == 2 THEN
    DISPLAY "Wednesday"
ELSE-IF number == 3 THEN
    DISPLAY "Thursday"
ELSE-IF number == 4 THEN
    DISPLAY "Friday"
ELSE-IF number == 5 THEN
    DISPLAY "Saturday"
ELSE-IF number == 6 THEN
    DISPLAY "Sunday"
ELSE
```

