## 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.

[5 marks]
**Algorithm Example Answer**

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[5 marks]

***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
    DISPLAY “INVALID NUMBER ENTERED”
```
