002 An algorithm a day...

Algorithm Question

If Monday = 0, Tuesday = 1 etc...

Adapted from OCR GCSE 9-1 Unit 2 Sample Exam

...write an algorithm 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:

- Value INPUTTED and STORED
- Inputted value cast to an integer type
- 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:

```
number = input("Enter a number: ")
number = int(number)
if number == 0 then
       print("Monday")
elseif number == 1 then
       print("Tuesday")
elseif number == 2 then
       print("Wednesday")
elseif number == 3 then
       print("Thursday")
elseif number == 4 then
       print("Friday")
elseif number == 5 then
       print("Saturday")
elseif number == 6 then
       print("Sunday")
else
       print ("INVALID NUMBER ENTERED")
endif
```