**Programming**

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| A one-dimensional (1D) array Days[ ] contains the names of the days of the week. A one-dimensional (1D) array Readings[ ] is used to store temperature readings, taken once a day, for each of the seven days of the week. A variable AverageTemp is used to store the average temperature for a week. The position of any day’s data is the same in both arrays. For example, if Wednesday is in index 4 of Days[ ], Wednesday’s temperature readings are in index 4 Readings[ ]. The temperature readings are in Celsius to one decimal place. Temperatures can only be from –20.0°C to +50.0°C inclusive. Write a program that meets the following requirements:* input and validate the daily temperatures for one week
* output the temperature for each day of the week
* calculate the average temperature for the whole week
* convert the average temperatures from Celsius to Fahrenheit by using the formula Fahrenheit = Celsius \* 9/5 + 32
* output the average temperature of the week in Celsius and in Fahrenheit

You must use pseudocode or program code and add comments to explain how your code works.You do not need to declare any arrays, variables or constants; you may assume that this has already been done.All inputs and outputs must contain suitable messages.All data output must be rounded to one decimal place.You will need to initialise and populate the array Days[ ] at the start of the program.  |

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