Name: Class:

Task 1

1. An array named Ages holds 10 different ages. Write pseudo-code to increase each age in the array by one. The Ages array should be initialised as follows:

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| 15 |
| 14 |
| 15 |
| 14 |
| 12 |
| 17 |
| 16 |
| 15 |
| 15 |
| 14 |

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Task 2

1. Julie has collected data on the average monthly temperatures for each month of the year. She is writing a program to print these out in a list, e.g.

January 15.0

February 13.8

March 16.5

etc.

The start of her program defines an array called month and initialises it.

DECLARE Month : ARRAY[1:12] OF STRING  
Month ← ["January", "February", "March", "April”, "May", "June", "July",   
 "August", "September", "October", "November", "December"]

She wants to allow the user to input the monthly temperatures into an array Temperature which has length 12.

Write pseudo-code for inputting the data in Julie’s program, prompting the user with statements such as "Enter temperature for January: ", "Enter temperature for February: ", etc., and then prints the data, giving the month and temperature for each month.

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2. Write pseudo-code to input the monthly rainfall for each month from January to December into an array and print:

* a list of each month’s rainfall
* the total annual rainfall to one decimal place
* the monthly average over a year
* the number of months that have rainfall above the average value

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Task 3

The following till receipt shows items purchased along with their quantity:

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| --- | --- |
| **Price** | **Quantity** |
| 0.99 | 2 |
| 1.28 | 3 |
| 3.69 | 1 |
| 0.49 | 4 |
| 8.29 | 1 |

Write a program in pseudocode that will make use of a 2-D array to calculate the subtotal of each item along with the total for the whole receipt.

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