Name: Class:

Task 1

1. Write a single selection statement in pseudocode to do the following:

If the temperature is greater than 30, output “Too hot”.

Otherwise output “A bit chilly”

|  |
| --- |
|  |

2. The following code shows a number of variables that have been declared:

DECLARE age : Integer  
 DECLARE playAgain : Boolean  
 DECLARE playerName : String  
 age 🡨 15  
 playAgain 🡨 True  
 playerName 🡨 "Olivia"

The table below shows a number of conditions. For each one, write whether it evaluates to True or False.

|  |  |
| --- | --- |
| **Condition** | **True or False** |
| age < 18 |  |
| playAgain |  |
| playerName = "Smith" |  |
| NOT playAgain |  |
| age = 15 |  |
| age >= 18 |  |

Task 2

The following pseudocode calculates the amount of postage for a parcel.

IF size = "letter" AND weight <= 100 THEN

price ← 1.65

ENDIF

IF size = "large letter"

THEN

IF weight <= 100

THEN

price ← 1.95

ELSE

IF weight <= 250

THEN

price ← 2.37

ELSE

price ← 2.81

ENDIF

ENDIF

(a) Add a line of code at the beginning and end of this algorithm so that it is only executed if type = "first-class"

(b) What is the price of a large letter weighing 150gms, using first-class post?

(c) What is the price of a large letter weighing 30gms?

(d) What is the maximum weight for a letter?

(e) Draw a box around the nested if statements in the code.

Task 3

Complete the pseudocode below to make use of a CASE statement to output the following messages depending on the value stored in the variable DayOfTheWeek.

|  |  |
| --- | --- |
| **DayOfTheWeek** | **Output (origin of the day)** |
| Sunday | Sun |
| Monday | Moon |
| Tuesday | Mars |
| Wednesday | Mercury |
| Thursday | Jupiter |
| Friday | Venus |
| Saturday | Saturn |
| Any other text entered | Sorry – not recognised |

OUTPUT "Enter a day of the week to see its origin"  
INPUT DayOfTheWeek

CASE