

DCI1013: PROBLEM SOLVING

Tutorial 4

by

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Question 1

```
1 CalculateCinemaTicket()
2   Enter nationality
3   IF nationality = "local"
4     IF day = "weekday"
5       price = 7.00 * 0.1
6       Display price
7     Else
8       price = 9.00 * 0.1
9     END IF
10  ELSE
11   IF day = "weekday"
12     price = 8.00
13     Display price
14   ELSE
15     price = 12.00
16     Display price
17   END IF
18 END IF
19 END
```

Based on the algorithm above, produce a Desk Check for the following input data sets:
nationality = foreign day = weekend

Hint: Please refer notes "General Problem Solving Concept" (Chapter 5)

Question 2

```
1 CalculatePizzaPrice()
2   Input membership
3   IF membership = 1 THEN
4     Display "Membership"
5     IF pizzaSize = "small"
6       cost = 10 * 0.5 + (10 * 0.06)
7       Display "Small Pizza"
8       Display cost
9   ELSE
10    cost = 15 * 0.5 + (15 * 0.06)
11    Display "Regular Pizza"
12    Display cost
13  END IF
```

```
14  ELSE
15    Display "Non Membership"
16    IF pizzaSize = "small"
17      cost = 10 + (10 * 0.06)
18      Display "Small Pizza"
19      Display cost
20    ELSE
21      Cost = 15 + (15 * 0.06)
22      Display "Regular Pizza"
23      Display cost
24    END IF
25  END IF
26  END
```

Based on the algorithm above, produce a Desk Check for the following input Data set: **membership = 0** **pizzaSize = small**

Hint: Please refer notes "General Problem Solving Concept" (Chapter 5)

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