

CP5805 – Assessment 2B: Week 2 reflective journal

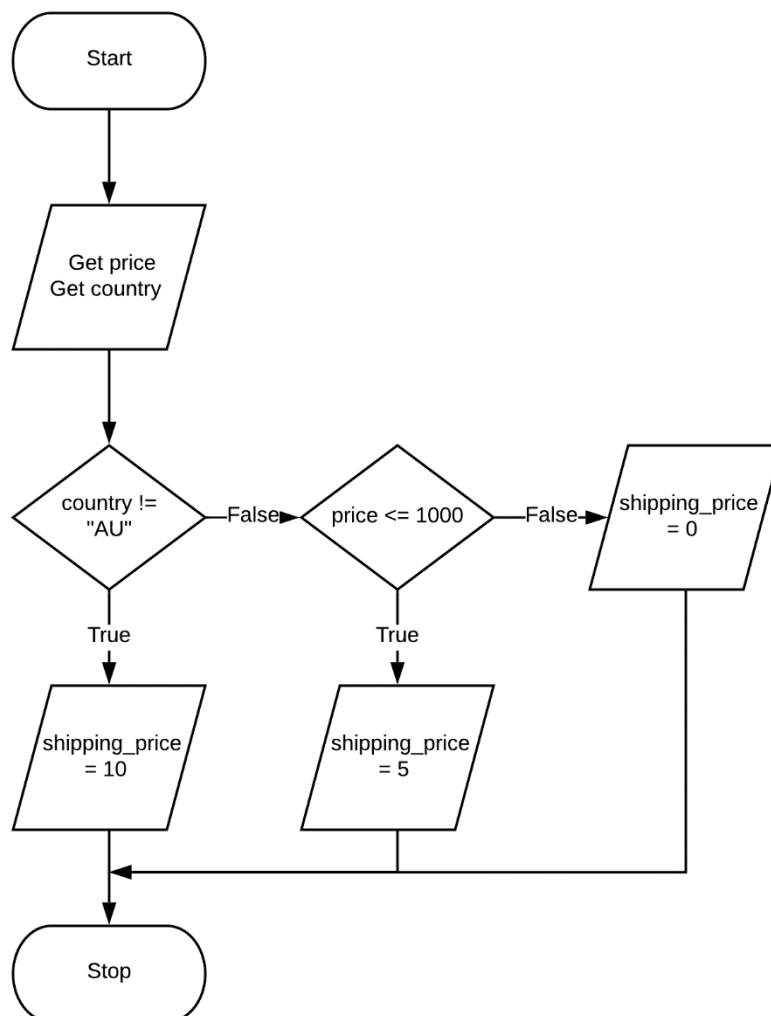
Task 1

The condition action table is:

| Condition | Action |
|---------------------------------|--------------------------|
| UV index < 3 | Display “low risk” |
| UV index >= 3 AND UV index < 6 | Display “moderate risk” |
| UV index >= 6 AND UV index < 8 | Display “high risk” |
| UV index >= 8 AND UV index < 11 | Display “very high risk” |
| UV index >= 11 | Display “extreme risk” |

Task 2

Flowchart



Example pseudocode solution

```
if country == "AU"  
    if price > 1000  
        shipping_price = 0  
    otherwise  
        shipping_price = 5  
    otherwise  
        shipping_price = 10
```

Task 3

A. temperature < 40 OR age > 70

| LHS | RHS | LHS \vee RHS |
|------|-------|----------------|
| True | False | True |

B. NOT (price > 1000 AND temperature < 30)

| LHS | RHS | LHS \wedge RHS | \neg (LHS \wedge RHS) |
|-------|------|------------------|---------------------------|
| False | True | False | True |

C. temperature > 37 AND age < 12 OR price < 1000

let i = temperature > 37; ii = age < 12; iii = price < 1000

| i | ii | i \wedge ii | iii | i \wedge ii \vee iii |
|-------|-------|---------------|------|--------------------------|
| False | False | False | True | True |

Task 4

```
find_max(data):  
    max = data[0]  
    for each item in data  
        if item > max then  
            max = item  
        otherwise  
            max = max  
    return max
```