|  |  |  |  |
| --- | --- | --- | --- |
| **Must** | **Should** | **Could** | **Won’t** |
|  |  |  |  |

|  |  |
| --- | --- |
| **Requirement** | **Criteria** |
|  |  |

**Module name**

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
|  |  |  |

**get\_number**

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| prompt  number | **BEGIN** get\_number  **WHILE TRUE**  **DISPLAY** prompt  response = **INPUT**  **IF** response **IS NUMBER**  **CONVERT** response to **INTEGER**  **RETURN** response  **ENDIF**  **ENDWHILE**  **END** | prompt  number |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Line #** | **discount** | **price** | **Conditions** | **Input/Output** |
| 1 |  |  |  |  |
| 2 |  | 200 |  | price ? 200 |
| 3 |  |  | 200 > 100 ? is T |  |
| 4 | 200 \* 15 / 100 = 30 |  |  |  |
| 5 |  | 200 - 30 = 170 |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  | price = 170 |
| 8 |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Line #** | **discount** | **price** | **Conditions** | **Input/Output** |
| 1 |  |  |  |  |
| 2 |  | 50 |  | price ? 50 |
| 3 |  |  | 50 > 100 ? is F |  |
| 6 |  |  |  |  |
| 7 |  |  |  | price = 50 |
| 8 |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Line #** | **x** | **xSquared** | **Conditions** | **Input/Output** |
| 1 |  |  |  |  |
| 2 |  |  |  | X, X Squared |
| 3 | 1 |  | 1 <= 3 ? T |  |
| 4 |  | 1 \* 1 = 1 |  |  |
| 5 |  |  |  | x = 1, xSquared = 1 |
| 6 | 1 + 1 = 2 |  |  |  |
| 3 |  |  | 2 <= 3 ? is T |  |
| 4 |  | 2 \* 2 = 4 |  |  |
| 5 |  |  |  | x = 2, xSquared = 4 |
| 6 | 2 + 1 = 3 |  |  |  |
| 3 |  |  | 3 <= 3 ? is T |  |
| 4 |  | 3 \* 3 = 9 |  |  |
| 5 |  |  |  | x = 3, xSquared = 9 |
| 6 | 3 + 1 = 4 |  |  |  |
| 3 |  |  | 4 <= 3? is F |  |
| 7 |  |  |  |  |
| 8 |  |  |  | ----------- |
| 9 |  |  |  |  |