Scenario:

Providing a way for people who are new to Australia or live here to find out what is the most common way of describing a certain range of tempature.

Audience:

Anyone who want to find the most common way to describe tempature in Australia.

Hardware & Software Available and Used:

|  |  |  |
| --- | --- | --- |
| Hardware | Purpose | In Use |
| MacBook Pro 16” | Used since it would allow me to work on the project at school and home | Yes |
| Shared Folder (Developer) | Used since it allowed me to move files between the Virtual Machine and the Host OS | Yes |

|  |  |  |
| --- | --- | --- |
| Software | Purpose | In Use |
| Microsoft Word 2023 | To document the details of the development and design of the Major Project | Yes |
| Parallels | To run a Virtual Machine for Windows on Mac OS to access Visual Studio’s Windows forms | Yes |
| Visual Studio (Windows) | To be able to use the VB.net framework with Windows forms | Yes |
| Visual Studio Code | To edit the .vb file since it is my prefered Text/ Code editor for programming | Yes |
| GitHub | To store my own code within my own repositries in the cloud so I could access them anywhere | Yes |

|  |  |  |
| --- | --- | --- |
| Language | Purpose | In Use |
| VB.net | Included in the Visual Basic software which is to be used for the .NET framework | Yes |
| C+ | Utilised in system programming language | No |
| C++ | Utilised in system programming langugage | No |

Level 1 Diagram:

Outputs what is most commonly said in relation to the given temperature

Output

Input

txtOutput

txtInput (Dec)

Data Flow Chart:

|  |  |
| --- | --- |
| Symbols | Data Flow |
| Flow Line:  Terminal:  Input:  Process:  Decision:  Connector:  Result: | If Statement  Temperature  Close  Close  Results  Refresh  Start |

Pseudocode:

|  |  |
| --- | --- |
| Pseudocode | Code |
| Input Temperature (Number)  If Temperature Less than 20 Then  Known is Equal to “Pretty Chilly”  If Temperature more than 19 but less than 35 Then  Known is Equal to “Pretty Chilly”  If Temperature more than 34 but less than 45 Then  Known is Equal to “Pretty Chilly”  If Temperature more than 44 but less than 50 Then  Known is Equal to “Pretty Chilly”  Outputs Know and Temperature |  |
| Clears Input and Output |  |
| Close Program/ Software |  |

Designs:

Data Dick:

|  |  |  |
| --- | --- | --- |
| Script Name | Type | Return Type / After Process |
| Temperature | Decimal | Decimal |
| Known | Decimal | Decimal |

Techniques Used:

|  |  |  |
| --- | --- | --- |
| Control | Suffix | Example |
| Label | lbl | lbl\_Input |
| TextBox | txt | txt\_Input |
| Button | btn | btn\_Process |

Development Journal:

|  |  |
| --- | --- |
| Evidence | Description |
| Graphical user interface, text, application  Description automatically generated |  |
| Graphical user interface  Description automatically generated |  |
|  |  |
|  |  |
|  |  |

Testing:

Evaluation: