

## "If" Statements

"If" statements are used when defining a variable thru conditions. The answer to these conditioning statements can then be used for output or to execute functions. For example if i were writing code for a Goldilocks app, to help her find a chair. I could code;

```
If (chairSize > sizeOfSmallChild)
{
    print ("This chair is too big.");
}
Else If (chairSize < sizeOfSmallChild)
{
    print ("This chair is too small.");
}
Else
{
    print ("This chair is just right. Kick up your feet and take a break.");
}
```

I would want to define the size of the small child but would not want that hard coded into the program but be an input the user can define.

Again, if i were to add to my Goldilocks app, to help her find some porridge. I would code;

```
If (porridgeTemp > hotLimitTemp)
{
    print ("This porridge is too hot!");
}
Else If (porridgeTemp > coldLimitTemp)
{
    print ("This porridge is too cold!");
}
Else
{
    print ("This porridge is too just right! Eat up");
}
```

(I would also let the user define their preferred temperature for porridge)

Finally, if i were to add to my Goldilocks app, to help her take a nap. I would code;

```
If (bedSoftness > prefSoftness)
{
    print ("This bed is too hard!");
}
Else If (bedSoftness < prefSoftness)
{
    print ("This bed is too soft!");
}
Else
{
    print ("This bed is just right! Take a nice nap Goldilocks.");
}
```

The above code would need to require user input of a number associated with 3 options; firm, medium, and soft. But the “if” statements will allow for different output based on users interaction with the extrapolated data.

These “if”, “else if”, and “else” statements can be applied to any form of variables testing their conditions and then performing a new function or displaying information or questions to help the user or to input further information for further conditioning.