Find the Biggest Number

Bigger of Two Numbers

If we wanted to write a program to take in two numbers from a user, compare them, and print out which one is bigger than the other, we could do the following:

```
# PROGRAM BiggerOfTwo:
FirstNumber = int(input("Please input the first value\n"))
SecondNumber = int(input("Please second the second value\n"))
if FirstNumber > SecondNumber:
    print(FirstNumber, "is bigger than", SecondNumber)
else:
    print(SecondNumber, "is bigger than", FirstNumber)
# ENDIF;
# END.
```

So if we typed in 22 and 33, it will print out the phrase:

```
33 is bigger than 22
```

And if we typed in 55 and 44, it will print out the phrase:

```
55 is bigger than 44
```

However, if we typed in 66 and 66, it will print out the phrase:

```
66 is bigger than 66
```

So the program doesn't really cover all eventualities, we need to check if the two values are the same to avoid this type of error. So we can first check if the input values are the same, and if they are, print out the value, otherwise we can check which one of the values is bigger than the other, in the same way as before:

```
if FirstNumber == SecondNumber:
    print("Both the same number:", FirstNumber)
else:
    <CHECK WHICH IS THE BIGGER OF TWO>
    <IN THE SAME WAY AS WE OUTLINED ABOVE>
# ENDIF;
# END.
```

So we put the original checking program into the else section (it must be indented):

```
# PROGRAM BiggerOfTwo-OrEqual:
FirstNumber = int(input("Please input the first value\n"))
SecondNumber = int(input("Please second the second value\n"))

if FirstNumber == SecondNumber:
    print("Both the same number:", FirstNumber)
else:
    if FirstNumber > SecondNumber:
        print(FirstNumber, "is bigger than", SecondNumber)
    else:
        print(SecondNumber, "is bigger than", FirstNumber)
    # ENDIF;
# ENDIF;
# END.
```

Note how the comments (with the hash symbol "#") make it easier to see alignment.