

```
In [6]: print("IF STATEMENT (> or <)")
varA = 100
varB = 120
print("varA =",varA)
print("varB =",varB)
if varA> varB:
    print("varA is greater than varB")
else:
    print("varB is greater than varA")

if varA< varB:
    print("varA is less than varB")
else:
    print("varB is less than varA")
```

```
IF STATEMENT
varA = 100
varB = 120
varB is greater than varA
varA is less than varB
```

```
In [7]: print("IF STATEMENT ( == or !=)")
varA = 100
varB = 120
print("varA =",varA)
print("varB =",varB)
if varA != varB:
    print("varA and varB are not equal. ")
else:
    print("varA and varB are equal.")

if varA == varB:
    print("varA and varB are equal. ")
else:
    print("varA and varB are not equal.")
```

```
IF STATEMENT ( == or !=)
varA = 100
varB = 120
varA and varB are not equal.
varA and varB are not equal.
```

```
In [8]: print("IF STATEMENT (<= or >=)")
varA = 100
varB = 120
print("varA =",varA)
print("varB =",varB)
if varA <= varB:
    print("varA is less than or equal varB. ")
else:
    print("varA is less than or equal varB.")

if varA >= varB:
    print("varA is greater than or equal varB. ")
else:
    print("varA is not greater than or equal varB.")
```

```
IF STATEMENT (<= or >=)
varA = 100
varB = 120
varA is less than or equal varB.
varA is not greater than or equal varB.
```

```
In [9]: print("ELSE IF STATEMENT")
varA = 100
varB = 120
print("varA =",varA)
print("varB =",varB)
if varA > varB:
    print("varA is greater than varB. ")
elif varB>varA:
    print("varB is greater than varA.")
else:
    print("varA and varB are equal")
```

```
ELSE IF STATEMENT
varA = 100
varB = 120
varB is greater than varA.
```

```
In [10]: print("ELSE IF STATEMENT WITH AND")
varA = 100
varB = 120
varC = 321
print("varA =",varA)
print("varB =",varB)
print("varC =",varC)
if varA > varB and varA > varC:
    print("varA is greater than varB and varC. ")
elif varB > varA and varB > varC:
    print("varB is greater than varA and varC.")
else:
    print("varC is greater than varA and varC")
```

ELSE IF STATEMENT

```
varA = 100
varB = 120
varC = 321
varC is greater than varA and varC
```

```
In [11]: print("IF STATEMENT WITH OR")
varA = 2
print("varA =",varA)
if varA == 0 or varA == 1:
    print("varA is binary ")
else:
    print("varA is not binary.")
```

IF STATEMENT WITH OR

```
varA = 2
varA is not binary.
```