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CS3C

Conditional statements

- if Statements

- ❖ A piece of code is executed using the if statement to test a condition and see if it is true.
- ❖ A variety of comparison operators, such as == (equality), !> (greater than), < (less than), >= (greater than or equal to), <= (less than or equal to), etc. are examples of inequality expressions.
- ❖ Example:

```
x = 10
if x > 5:
    print("x is greater than 5")
```

- if...else Statements

- ❖ When testing a condition, the if...else statement is used to execute one piece of code if the condition is true and a different block of code if it is false.
- ❖ Example:

```
x = 10
if x > 5:
    print("x is greater than 5")
else:
    print("x is not greater than 5")
```

- Python if elif else Statement

- ❖ The if...elif...else statement is used to test several situations and run distinct code blocks according to the results.
- ❖ Example:

```
x = 10
if x > 10:
    print("x is greater than 10")
elif x == 10:
    print("x is equal to 10")
else:
    print("x is less than 10")
```