

Name:katricia Lopez
Sec:CS3C

Conditional statements

- if Statements

-An if statement is a programming construct that allows the execution of a set of code based on whether a specified condition evaluates to true or false. If the condition is true, the code inside the "if" block is executed; otherwise, it is skipped.

- if...else Statements

-An if-else statement is a programming construct that extends the functionality of an "if statement." It allows the execution of one set of code if a specified condition is true and another set of code if the condition is false. This provides a branching mechanism in the program flow, enabling different actions based on the evaluation of the condition.

- Python if elif else Statement

-In Python, the `if-elif-else` statement is used to handle multiple conditions sequentially. It allows you to check multiple conditions and execute different blocks of code based on the first true condition encountered. Here's a basic structure:

```
```python
if condition1:
 # code to execute if condition1 is true
elif condition2:
 # code to execute if condition2 is true
else:
 # code to execute if none of the conditions are true
```
```

Each `elif` (short for "else if") block is evaluated only if the preceding conditions are false. If none of the conditions are true, the code inside the `else` block is executed.