

If-Elif-Else statements

So far we have looked at Simple If and a single If-Else statement. However, imagine a situation in which if a condition is satisfied, we want a particular block of code to be executed, and if some other condition is fulfilled we want some other block of code to run. However, if none of the conditions is fulfilled, we want some third block of code to be executed. In this case, we use an **if-elif-else** ladder.

In this, the program decides among multiple conditionals. The **if** statements are executed from the top down. As soon as one of the conditions controlling the **if** is true, the statement associated with that **if** is executed, and the rest of the ladder is bypassed. If none of the conditions is true, then the final else statement will be executed.

The general syntax of an **if-elif-else** ladder will be:

```
if <Condition 1>:
    <Execute this code block>
elif <Condition 2>:
    <Execute this code block>
.
.
elif <Condition X>:
    <Execute this code block>
else:
    <Execute this code block>
```

*** Keep in mind the indentation levels for various code blocks.

Note:- We can have as many **elif** statements as we want, between the **if** and the **else** statements. This means we can consider as many conditions as we want. It should be noted that once an **if** or **elif** condition is executed, the remaining **elif** and **else** statements will not be executed.