

Else and elif(else if) in Python

But First, Some Review

```
1  some_num = int(input("Enter a number: "))
2  if some_num >= 5:
3      print("that number is over 5.")
```

- An if statement checks to see if a statement is evaluated as “True” or “False”
- If True, the code indented below it runs.
- Ex. if the user enters a number over 5, the program prints “that number is over 5.”
- If the number is below 5, nothing happens

But what if the Statement is False?

```
1  some_num = int(input("Enter a number: "))
2  if some_num >= 5:
3      print("that number is over 5.")
4  else:
5      print("That number is under 5.")
```

- The else statement is a “catch-all” statement
- Whenever the if statement is False, the else statement runs.

The powerful elif statement

What about when we want multiple conditions?

The elif statement!

- Basically another if statement
- Only checked when preceding if statement is False

```
6 person = input("Who is cool?")
7 if person == "Mr. Poole":
8     print("is cool")
9 elif person == "Giannis":
10    print("is tall")
11 else:
12    print("Isn't my favorite NBA player")
```

What do you think the output will be?

```
1  x = 25
2  if x > 10:
3      print("First")
4  elif x > 30:
5      print("Second")
6  else:
7      print("Third")
```

Try it!

Lab 3 : Calculator

Ask user for a number, an operation, and another number, then print the result of the operation. Ex:

```
Please enter the first number:
```

```
9
```

```
Please enter an operation(+,-,/,*):
```

```
/
```

```
Please enter the second number:
```

```
2
```

```
4.5
```

```
✶ █
```