

Inspire presents

# Welcome to Day6

Character with competence

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# ELIF

**The elif keyword is python's way of saying "if the previous conditions were not true,**

# Sample code for elif

```
pandav = 5  
senses = 5  
if pandav < senses :  
    print("pandav is more than senses")  
elif pandav == senses :  
    print("senses is equal to pandav")
```

# Else

**The else keyword catches anything which isn't caught by the preceding conditions.**

# Sample code for else

```
maths = 90
```

```
english = 60
```

```
if maths < english :
```

```
    print("english marks more than math")
```

```
else :
```

```
    print("Math marks more than english")
```

# Sample code for general

```
Ram = 40
```

```
Bharat = 30
```

```
Laxman = 25
```

```
if (Ram >= Bharat) and (Ram >= Laxman) :
```

```
    print("Ram")
```

```
elif (Bharat >= Ram and Bharat >= Laxman) :
```

```
    print("Bharat")
```

```
else :
```

```
    print("Laxman")
```

# Short hand If

```
if a > b: print("a is greater than b")
```

# Short hand if -else

`print("A") if a > b else print("B")`



# ITERATIVE STATEMENTS

## Meaning of iteration

1. executing the same set of instructions a given number of times or until a specified result is obtained
2. doing or saying again, a repeated performance

# Looping Statements

There are two types of loops in python

- For loop
- While loop

# For Loop

**A for loop is used for iterating over a sequence (that is either a list, a tuple, a dictionary, a set, or a string)**

# Example by string

```
for x in "Inspire" :
```

```
    print(x)
```

**output :**



I  
n  
s  
p  
i  
r  
e

# Range object

The `range()` function returns a sequence of numbers, starting from 0 by default, and increments by 1 (by default), and ends at a specified number.

**`range(start,end,increment)`**

# Example by range fn

```
for x in range(5):  
    print(x)
```

**output :**



0  
1  
2  
3  
4

# Example by range parameter

```
for x in range(5,20,3):
```

```
    print(x)
```

**output :**



5

8

11

14

17

# While Loop

**With while loop we can execute a set of statements as long as a condition is true.**



# Example by while

```
i = 1
```

```
while( i < 6 ) :
```

```
    print(i)
```

```
    i += 1
```

**output :**



1

2

3

4

5