

Conditional statements: if, if else,if elif else,nested if

IF

SYNTAX:

If(condition):

 Statement

Program:

```
a=int(input("enter the number:"))
```

```
b=int(input("enter the number:"))
```

```
if(a>b):
```

```
    print("a is greater than b")
```

OUTPUT:

enter the number: 5

enter the number: 4

a is greater than b

IF ELSE:

PROGRAM:

```
a=int(input("enter the number:"))
```

```
b=int(input("enter the number:"))
```

```
if(a>b):
```

```
    print("a is greater than b")
```

```
else:
```

```
    print("a is smaller than b")
```

output:

enter the number: 2

enter the number: 3

a is smaller than b

if..elif..else:

program:

```
a=int(input("enter the total marks of student out of 600:"))
if(a>550):
    print("A GRADE")
elif(a>500):
    print("B GRADE")
elif(a>400):
    print("C GRADE")
else:
    print("the student got less marks no grades for those marks")
```

output:

```
enter the total marks of student out of 600: 300
the student got less marks no grades for those marks
```

nested if else :

An ifelse statement consists of another ifelse statement is called nested if else

Syntax:

```
if condition1:
    # code block if condition1 is True
    if condition2:
        # code block if both condition1 and condition2 are True
    else:
        # code block if condition1 is True but condition2 is False
else:
    # code block if condition1 is False
```