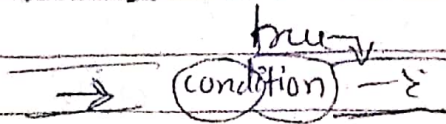


# Day 14 : Conditional Statements

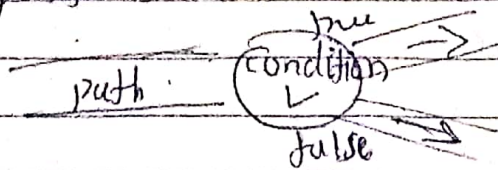
1) why we need conditional statements  
⇒ conditional statements are decision makers in programming it decide what can do for specific task.

Pattern 1



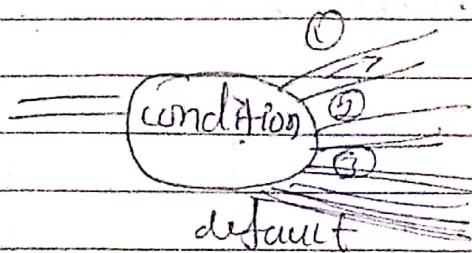
if () eg: if (age > 18):  
"yes eligible to vote"

Pattern 2



if else () eg: if (amount > 100000):  
"allow to pay"  
else: "not allow"

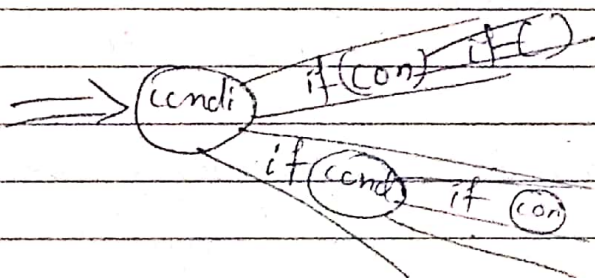
Pattern 3



if else if : in py elif else  
if (marks > 75): "distinction"  
elif (marks > 60): "first class"  
else if (marks > 35): "pass"  
else: "Fail"

Pattern 4

nested if else



eg: train ticket  
if (ticket):  
if (birth > 20):  
if (lower birth):  
"reserved"

eg: voting application  
if (age > 18):  
if (adhar):  
if (voter id):

Amazon company issue: shopping cart

windows blue screen of death (crowdstrike) antivirus

2) Conditional Statement

result

is positive : (num > 0) ? True : False

if (num > 0) {

is positive : True;

} else {

is positive : False;

}

3) Switch cases / match in py

Switch (case input) {

case 1:

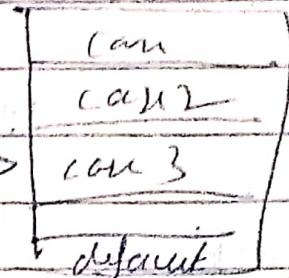
case 2:

case 3:

default:

"invalid"

input: 3

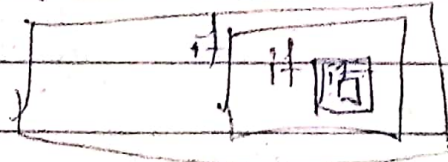


direct call

4) How to write clean & clear conditional statement

fun:

if ( )





```
func(arg, arg, arg, arg, arg): clean
```

```
if (input is wrong): clean  
    return
```

```
& logic:
```

```
[ code ]
```

Sample examples

```
example number is positive  
① number = 10  
    if (number > 0):  
        print("Number is positive")  
    else:  
        print("Number is negative")
```

② else if elif in py

```
number = 0  
if (number > 0):  
    print("Number is positive")  
elif (number < 0):  
    print("Number is negative")  
else:  
    print("Number is zero")
```

```
③ def getClassForPercentage(percentage: float) -> str:  
    & Cpercentage >= 75):  
        return "Distinction"  
    elif (percentage >= 60):  
        return "First class"  
    elif (percentage >= 50):
```

```

    return "Second class"
elif (percentage >= 35):
    return "Pass"
else:
    return "Failed"

```

4) invocation a function

student1\_percentage = 76

```

result = get_Class_For_Percentage(student1_percentage)
print(result)

```

④ convert digit to a month name

```

def get_month_name(month: int) -> str:
    match (month):

```

```

        case 1:

```

```

            return "January"

```

```

        case 2:

```

```

            return "February"

```

```

        case 3:

```

```

            return "March"

```

```

        case 4:

```

```

            return "June"

```

```

        case 5:

```

```

            return "May"

```

```

        case _:

```

```

            return "None of option < 6 and > 0"

```

5) greater or smaller using conditional operator

number = -1

```

result = "Greater or equal to zero" if (number >= 0)
else "Less than zero"

```

```

print(result)

```