

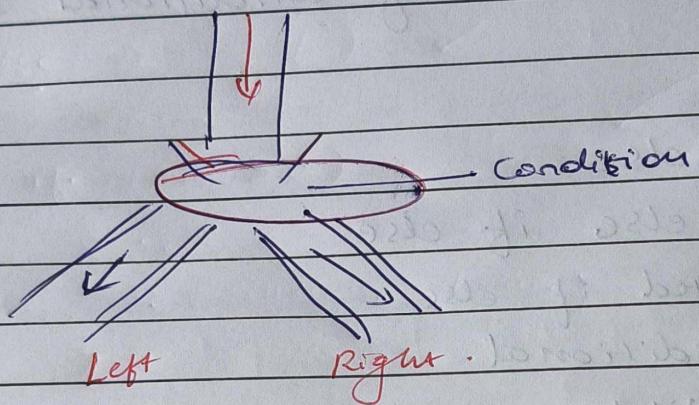
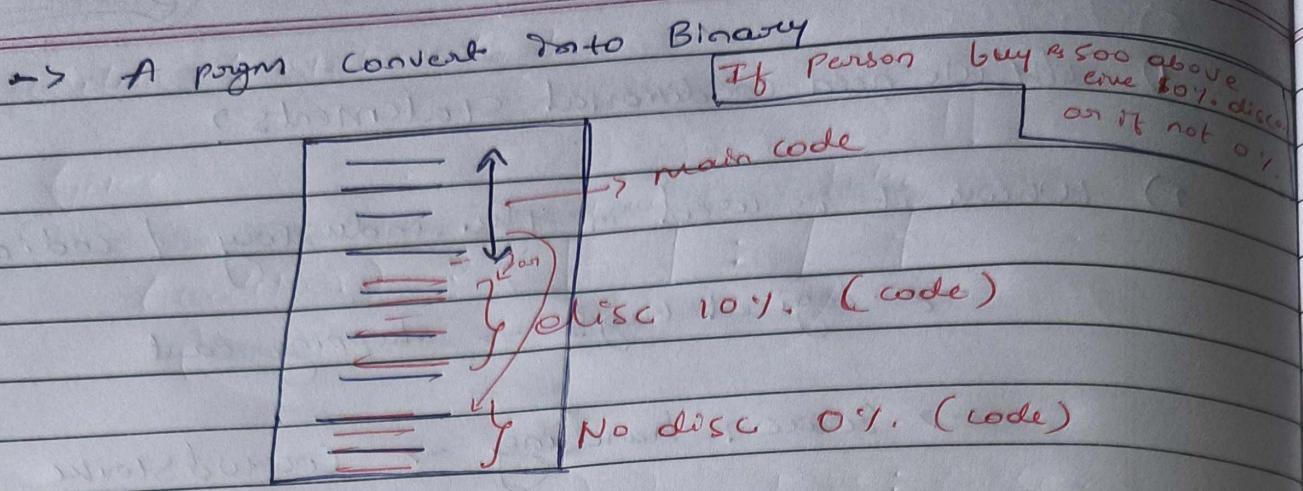
13 Conditional statements :

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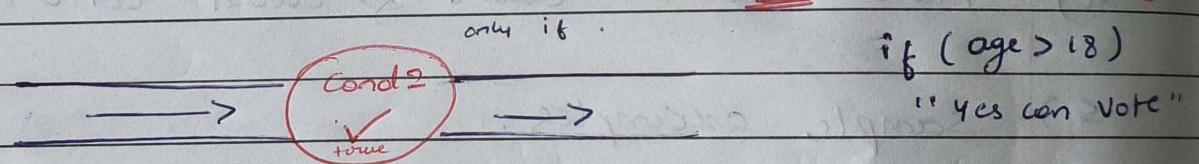
- 1) why we need conditional statements ?
- 2) where it is used in the industry / coding
 - > logical bugs -> shopping cart
 - > error handling -> CrowdStrike.
- 3) Types of patterns of conditional statements
 - > if
 - > if . else
 - > if else if else
 - > Nested if else
 - > conditional
 - > switch

- 4) How to write clear & clean conditional statements
- 5) sample examples .

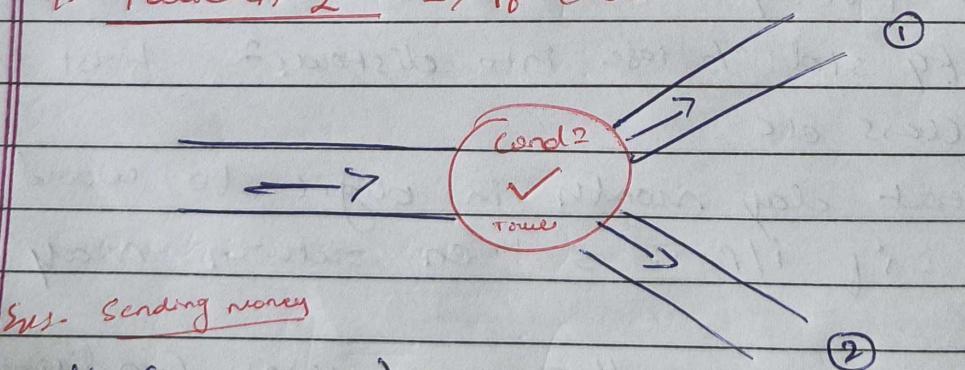
- > Is no. positive
- > Is no. +ve / -ve
- > classify std % to int distanc², first class
2nd class etc
- > convert day month in digit to word
ex: if i/p is 5 then return may
- > Create or smaller no. using conditional operator



pattern 1 → if ()



Pattern 2 → if else



Ex- Sending money

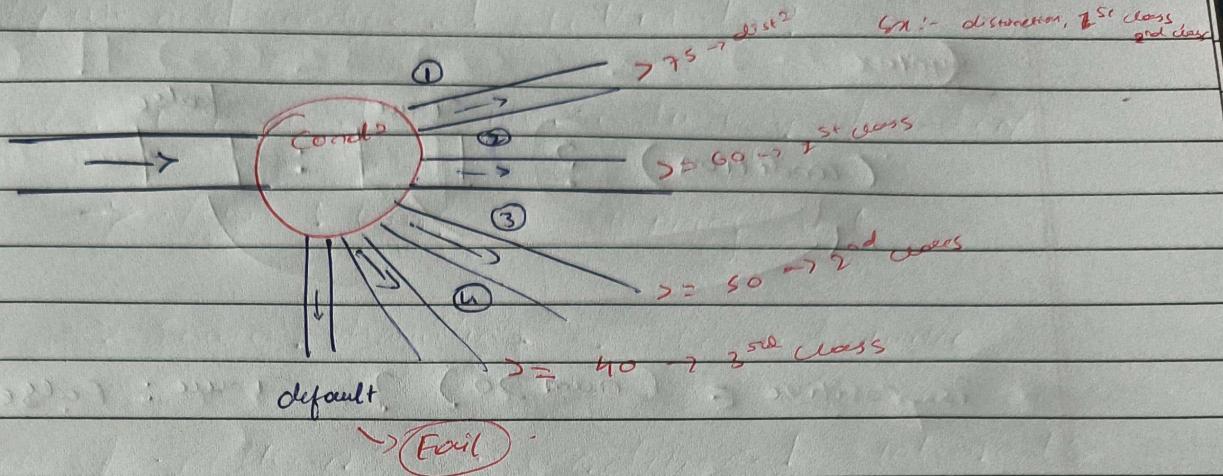
if (rupees > 0) && < 1 lack)

"allow the transfer"

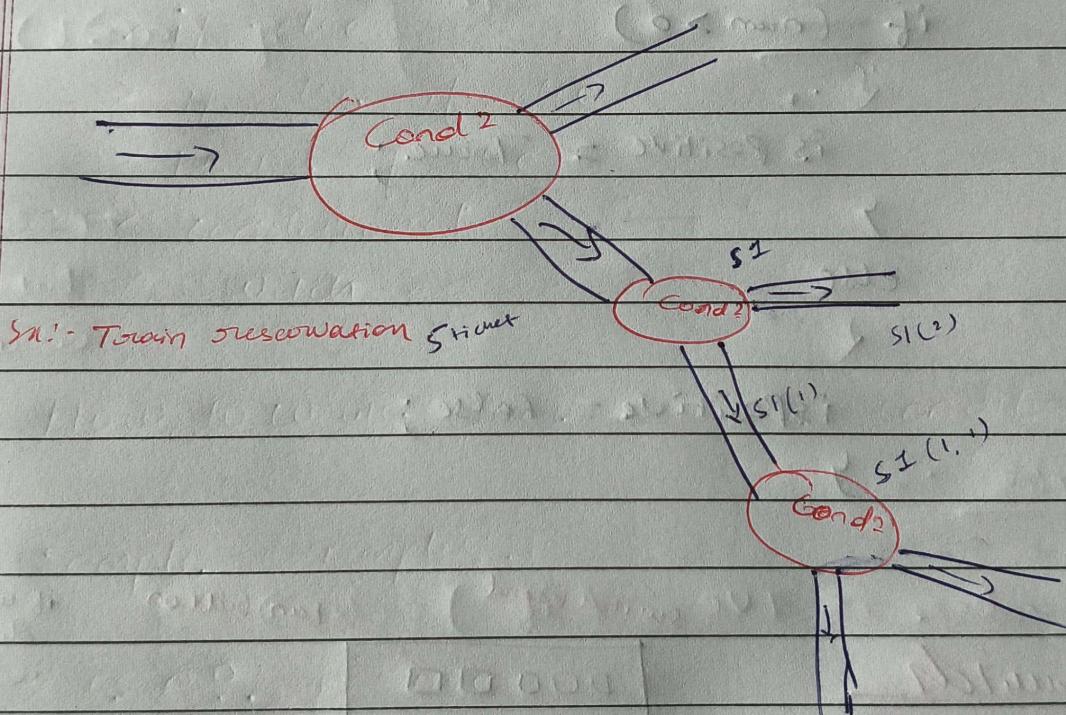
else:

"not allow the transfer to text"

pattern 3 → if else if ... else

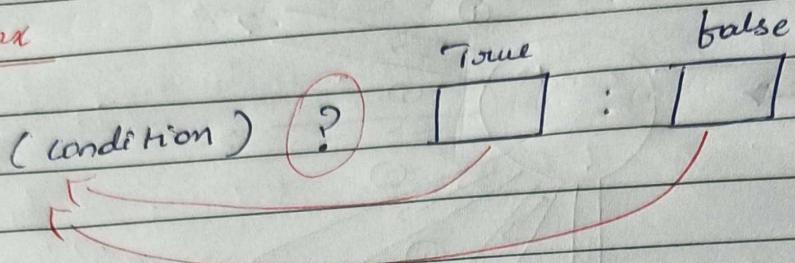


pattern 4 → Nested if else :



Q) Conditional Statements :

Syntax



isPositive = (num > 0) ? True : False;

for if else

if (num > 0)

{
 *

 isPositive = True;

}

else

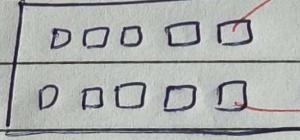
{

 isPositive = False;

}

Switch

switch board



if we switch on
direct fan button
it needs

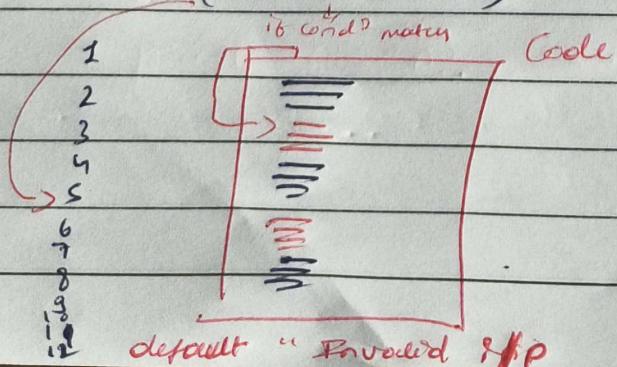
if switch on
light if need

Ex:- month check if 1 -> jan -

but not start all buttons
only directly start
the needed switch

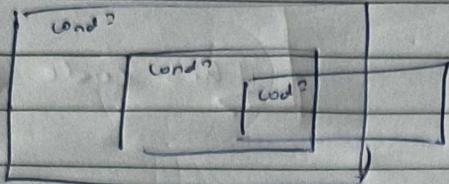
i.e. In two way switch work

Switch (condition)

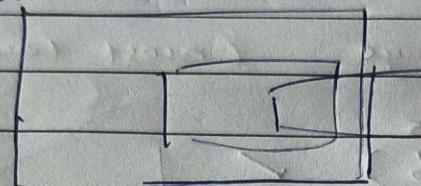


Ex:- Nested if else

if ()



else



This will be
confusion
because it will
very complicated

but we can refactor
& see write .

fun (- - - -)

Checking the coming ip is correct or not .

if (input1 ✓)

if (ip2 ✓)

if (ip3 ✓)

→ This is lengthy

if we can done

by

early exit

Continue

→ check it is wrong instead
of weight .

Ex:-

if (input1 is wrong)

return :

if (input2 is wrong)

return :

core logic .

Su:- more & & cond's..

$((\text{cond}_1) \& \& (\text{cond}_2) \& \& (\text{cond}_3) \mid\mid (\text{cond}_4))$

→ This code must be a bugs

* Imp. for C language (most toucher bugs to find)

if ($a == b$) ✓
===== } execute.
===== } execute
But while put
if ($a = b$) ✓
===== } execute

It also execute.

but it is
wrong.

Examples :-

number is +ve (if) (else)

number = 10

if (number > 0):

print ("No. is +ve.")

else :

print ("No. is -ve")

} if
} if else

~~for~~ if else if else -- (nested if else)

number = 0

if (number > 0):

print ("No. is +ve")

elif (number < 0):

print ("No. is -ve")

else :

print ("No. is zero")

classify the stds of age :-

def getClassForPercentage (percentage: float) -> str:

if (percentage >= 75):

return "Distinction"

elif (percentage >= 60):

return "1st class"

elif (percentage >= 50):

return "2nd class"

elif (percentage >= 35):

return "3rd class"

else :

return "Failed"