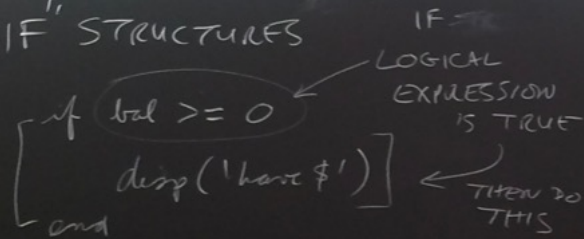


HW 3 → Chap 4 - SELECTION - DECISIONS & CHAP 5 - LOOPS, REPEATS

→ REVIEW "LOGICAL EXPRESSIONS" IN CHAP 1

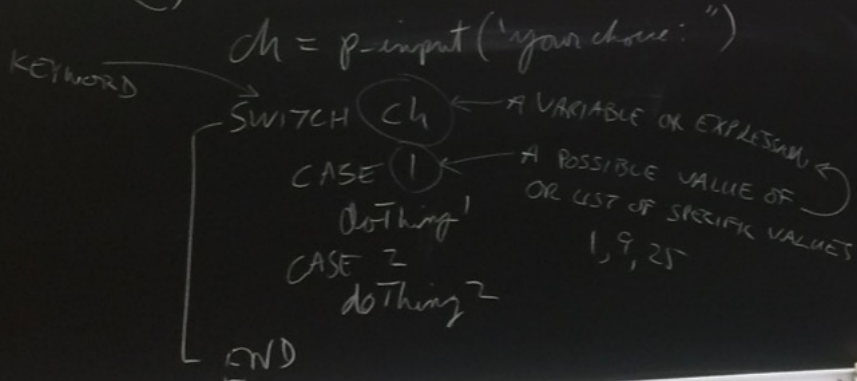
QUICK SUMMARY

① "IF" STRUCTURES



← IF CAN DO "ANYTHING"
e.g. CAN CHECK RANGES OF VALUES.
& IF CAN DO ANYTHING SWITCH CAN DO

② "SWITCH" STRUCTURES



← CAN CHECK SPECIFIC VALUES
(NOT WITHIN RANGES)

WHEN SWITCH CAN WORK, e.g., CHECKING MENU CHOICES, THEN CAN BE QUICKER TO TYPE, READ & UNDERSTAND THAN "IF"

CHECK TEMPERATURE OF A REACTOR. → T = p.input('enter T: ')
 % HAVE T RANGES, USE "IF"

500	↑ TOO HOT, DANGER
400	NEED TO COOL
300	JUST RIGHT
200	NEED TO HEAT
100	↓ TOO COLD

IF FIRST CONDITION IS NOT TRUE THEN PROCEED DOWN

```

if T > 500
    disp('TOO HOT, SHUTDOWN NOW!')
elseif (T > 400) && (T <= 500)
    disp('TOO WARM, COOL REACTOR')
elseif (T > 300)
    disp('JUST RIGHT')
elseif (T > 200)
    disp('TOO COOL, HEAT')
else
    disp('TOO COLD, CHECK SYSTEM')
end
  
```

THIS PROBLEM, SIMPLE
 if T > 400 ALSO WORKS.

COMPOUND LOGICAL EXPRESSION

NOTE → OTHERWISE → DO THIS WHEN NONE OF ABOVE CASES ARE TRUE

MENU & SWITCH

```

switch ch
case 1
    ~~~~~
case 2
    ~~~~~
case 3
    ~~~~~
otherwise
    ~~~~~
end
  
```

The rest of the class period was exam 1