1.

is\_hot = False  
is\_cold = True  
  
if is\_hot:  
 print("its's a hot day")  
 print('drink water')  
  
elif is\_cold:  
 print('is very cold')  
 print('stay warm')  
else:  
 print('lovely day')  
print('enjoiy the day')

2.

Price of the home is 1m

If good credit

The downpayment will be 10%

Else itll be 20

Code ahead

price = 1000  
has\_goodcred = False  
  
if has\_goodcred:  
 downpay = 0.1\* price  
else:  
 downpay = 0.2\*price  
print(f"down payment: {downpay}")

print(f"down payment: ${downpay}")

1. logical operators

If application has goof credit and good income

Loan milsaktay

has\_hiincome= True  
has\_goodcred= True  
  
if has\_hiincome and has\_goodcred:  
 print("eligible for loan")

If either is false op wont come

If good income or good

Op will be seen

has\_hiincome= True  
has\_goodcred= False  
  
if has\_hiincome or has\_goodcred:  
 print("eligible for loan")

We also have not

If app has good cred and doesnt have criminal rec

The loan can be given

has\_hiincome= True  
has\_criminalrec = False  
  
if has\_hiincome and not has\_criminalrec:  
 print("eligible for loan")

Comparison operator

If tem more than 30 hot day

If tem less than 10 cold day

Else lovely day

temp= input('temp today please')  
if int(temp)>30:  
 print('its a warm day')  
elif int(temp)<10:  
 print('its a cold day')  
else:  
 print('its a lovely day')  
  
print('have a good day')

Code to user input the kind of weight

Take the inout

Convert to the other

print('here we will calc lbs to kgs or kgs to lbs')  
weight= int(input('please enter weight'))  
weight\_type= input('k or l')  
if weight\_type.upper() == "K":  
 conv\_p\_equiv = int(weight)/0.45  
 print(f'your converted kg equivalent is {conv\_p\_equiv}')  
elif weight\_type.upper() == "L":  
 conv\_k\_equi = int(weight)\*0.45  
 print(f'your converted kg equivalent is {conv\_k\_equi}')

While loops

Block of codes multile times

While condition:

i=1  
while i <= 5:  
 print(i)  
 i = i + 1  
print('donebush')

Op is 1-5 donebush

For the pattern

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\* \*\* \*\*

i=1  
while i <= 5:  
 print('\*' \* i)  
 i = i + 1  
print('donebush')

Study of while loop

secret\_number = 9  
guess\_count = 0  
guess\_limit = 3  
while guess\_count < guess\_limit:  
 guess = int(input('guess: '))  
 guess\_count += 1  
 if guess ==secret\_number:  
 print("you ve won")  
 break  
else:  
 print("youve failed")

Advanced while looping

command = ""  
while command.lower() != "quit":  
 command = input("> ").lower()  
 if command == "start":  
 print("car has started")  
 elif command == "stop":  
 print("car stopped")  
 elif command == "help":  
 print(""""  
 start to star car  
 stop to stop car   
 quit to exit""")  
 else:  
 print("i dont get it my man")

Advanced while loop pt 2

command = ""  
started = False  
while True:  
 command = input("> ").lower()  
 if command == "start":  
 if started:  
 print('car is already started')  
 else:  
 started = True  
 print("car has started")  
 elif command == "stop":  
 if not started:  
 print("car is alreafy stopped")  
 else:  
 started = False  
 print("car stopped")  
 elif command == "help":  
 print("""  
start to star car  
stop to stop car   
quit to exit""")  
 elif command == "quit":  
 break  
 else:  
 print("i dont get it my man")