Break\_continue\_pass:

Break : to end the loop. It uses with if statement to put a condition so you can break the loop and exit.

Continue : to skip the remaining code of the loop when a certain condition happen (like in if statement), but still looping.

Pass: uses for empty blocks when you don't have a code to write.

Imagine a scenario where we have a vending machine – which have 5 candies

First let’s write a program to print 5 candies, we can use while loop/for loop

Task 1:

* Now user asks for 10 candies what can we do ? let’s talk in general sense

🡪We can give the available 10 and say we are out of stock and stop the transaction

🡪we need to print values which are NOT odd numbers

x = int(input('How many candies you want? '))

i = 1

while i <= x:

    print('candy')

    i+=1

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stock = 5

x = int(input('How many candies you want? '))

i = 1 # initializaion

while i <= x: # condition

    if i > stock: # Inner loop where we are comparing the stock with the user input

        print('out of stock') # print statement

        break # we are telling the program to jump out of the loop/get out from here :P

    print('candy')

    i+=1 # increment value

print('bye')

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# here we want to skip the numbers divisible by 3 and continue the loop

for i in range(1,101): #mentioned the range

    if i %3 == 0: # provided the condition that if a number is divisible by 3

        continue # we are saying continue which means skip the numbers, WONT jump out of the loop

    print(i) # print the i value

print('Bye')

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for i in range(1,20): # starting with 1 till 20

    if i %2 == 0: # condition where the reminder is equal to zero which means it is an even number

        pass # just ignore the if statement and proceed with else

    else:

        print(i) # print the i value

print("bye")

conclusion:

Ex: debug the below code and observe the difference between break and continue

for i in range(5):

    if i == 3:

        break/continue:

    print('Hello' , i)

for pass:

if x%2 == 0:

pass ## we will use this ‘pass’ when we don’t know what to do with it, so that it will go to the next phase in the loop which can be another condition or else statement as we have seen before.