



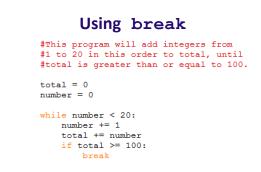
## break and continue Keywords

**break** – immediately terminate a loop (breaks out of loop)

continue - ends the current iteration and goes to the end of the loop body (breaks out of iteration) Note: Typically used with while loops, but can be used in a for loop as well.

## Do not overuse!

Can make code difficult to read and debug!



```
print("The number is", number)
print("The total is", total)
```

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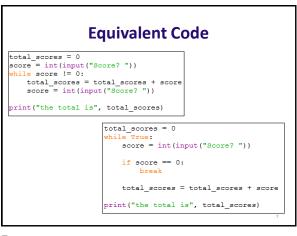


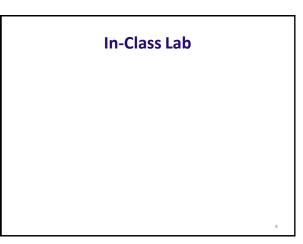
#This program will add integers from
#1 to 20 in this order to total,
#except for 10 and 11
total = 0
number = 0

while number < 20: number += 1 if number == 10 or number == 11: <u>continue</u> total += number

print("The total is", total)

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**Using Boolean Variables in Loops** 

If at any time during the loop, you find a factor of n other than 1 or n, set value of prime to False and break out of the loop

Given a positive integer n, assign True to **prime** if n has no

(Remember, m is a factor of n if m divides n evenly.)

factors other than 1 and itself.

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