PDF	Lecture-12	_ For and wh	nile loops.ip	ynb - Colab	

General Format

```
while <test>: # Loop test
<statements1> # Loop body
else: # Optional else
  (statements2) # Run if didn't exit loop with break
while True print('Type Ctrl-C to stop me!')
x = 'spam'
while x' # While x is not empty
print(x, end=' ')
x = x[1:] # Strip first character off x

spam pam am m
                                                    OOO
 a=0; b=10
while a < b: # One way to code counter loops

(print(a, end= 1))

a += 1 # Or, a = a + 1
 → 0123456789

    for <target> in <object>: # Assign object items to target

     <statements> # Repeated loop body: use target
 else:
     <statements> # If we didn't hit a 'break'
 for x in ["spam", "eggs", "ham"]:
    print(x, end=' ')
 ⇒ spam eggs ham
 sum = 0
 for x in [1, 2, 3, 4]:
     sum = sum + x
 sum
 <del>_</del> → 10
 prod = 1
 for item in [1, 2, 3, 4]: prod *= item
 prod
 break: Jumps out of the closest enclosing loop (past the entire loop statement) continue: Jumps to the top of the closest enclosing loop (to the
 loop's header line)
 while <test1>:
     <statements1>
     break # Exit loop now, skip else
     if <test3>:
     continue # Go to top of loop now, to test1
 else:
     <statements2> # Run if we didn't hit a 'break'
 x= 10
 while x:
     x = x-1 \# Or, x -= 1
     if x % 2 != 0: continue # Odd? -- skip print
print(x, end=' ')
 ₹ 86420
 while True:
     name = input('Enter name:')
```

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if name == 'stop': break
age = input('Enter age: ')
print('Hello', name, '=>', int(age) ** 2)

Enter name:Sadbhawna
Enter age: 29
Hello Sadbhawna => 841
Enter name:Sad
Enter age: 30
Hello Sad => 900
Enter name:Stop

Start coding or generate with AI.

https://colab.research.google.com/drive/1Hz94RbXQ1pq0UlkYUx5W7ajRJ9vHwfJ7#scrollTo=4gn7VL9a8lTd&printMode=true