Loops; Loops are used to execute a block of cools repealedly as long as a certain condition is true or for a specific number of iterations. in well described at a lad o Types: · while · for while loop; The while loop executes a block of codes as long as a specified condition is true to the continuously checks the condition before each iteration and stops when the condition becomes talse Syntax: while condition ! # code block to be executed seprately. code i condice = 10 while condies >0; Print ("Giving a condy to addicted!") Candles - = 1 millione shari Lada Print (candies) Giveing a condy to a triend! for loop? A for loop is a way to repeat a block of code for each from In a collection (like a list) or for a specific range of numbers. Cade & milled toop to generale a multiplication for variable in range (start, stop, step); Syntax } It code block to be executed for each variable. code in given to foi Candles = 10 for 1 in range (0, candies): Print ("given to triend")

for loop for signance: The for loop is used to Herate one a sequence (such as a list, typle, string, or dictionary) and execute a black of code for each item in the sequence. Syntax; # code block to be executed for each Hern Code: Message = "Hello, world!" off ? He for i in message. Print (1) length = len (message) for i in range (length): Print (1) Nested loops: Nested loops refer to the situation where one loop is placed inside another loop. This allows you to execute a set of instructions repeatedly. Syntax 7 for outer-vas in outer-segraence: # code block of the other loop for inner - var in Inner - sequence: # code bock of the inner loop. code ¿ Nustral 100p to granevale a multiplication table from for 1 (n. range (16): for j'm range (1,41): Print (f" fi} * {i} = {i * j}")

If during the execution of the loop Python interpreter Break : encounters break, it immediately stops the loop excudion and exits out of it. Syntax: It code block inside the loop while condition: break # Exit. the loop is the condition is met Code : for i in sange (condicis): - Print ("Giving a condy to a friend!") If candics -1 ==5: Print ("only 5 candies left. Stopping distribution I delado bocak pajoi se u septii subticolo - widown lowited it tivil Continue ? Continue Statement is used to skip the rest of the current Heratton in a loop and move to the next itexa -tion immediately. Syntax; ((1) sular a suid ") Lugar) tal = 1 while condition: It code block inside the loop If some - condition · A - Si Jide continue # skip this iteration coder candies = 10 for i in range (condition): if condition -i = = 5: print ("only 5 condits left: skipping this continue Print (Giving a landy to a triling