if statement In [1]: inp = input('Enter Nationality : ') Enter Nationality : french In [2]: if inp == "French": print('Préférez vous parler français ?') # if block print('Thank You!!') Thank You!! In [3]: inp = input('Enter Nationality : ') if inp == "French": print('Préférez vous parler français ?') # if block print('Thank You!!') Enter Nationality : French Préférez vous parler français ? Thank You!! if else In [4]: num = int(input('Enter a number : ')) Enter a number : 3 In [5]: **if** num > 0 : print(num, ' is a positve number') else : print(num, ' is a negative number') 3 is a positve number if elif In [1]: marks = float(input('Please enter marks : ')) **if** marks >=90 : print('Grade A') **elif** marks >=75: print('Grade B') elif marks >= 55 : print('Grade C') elif marks >= 35 : print('Grade D') else : print('Grade F') print('Thank you !!') Please enter marks : 87 Grade B Thank you !! Nested if In [7]: a = int(input('Enter a number :')) b = int(input('Enter a number :')) c = int(input('Enter a number :')) Enter a number :20 Enter a number :44 Enter a number :5 In [8]: **if** (a > b): **if** (a > c): print('a (', a, ') is greatest') else : print('c (', c, ') is greatest') else : **if** (b > c): print('b (', b, ') is greatest') else : print('c (', c, ') is greatest') b (44) is greatest Loops for loop In [9]: string = 'Python' for s in string: print(s) print('Thank You!!') Ρ У Thank You!! while loop In [10]: counter = 0 while counter < 5:</pre> print(counter) counter += 1 print('Thank You!!') 0 1 3 Thank You!! while loop never executed In [11]: counter = 5 while counter < 5:</pre> print(counter) counter += 1 print('Thank you') Thank you Range function range(n) In [1]: obj = range(10)print(obj) range(0, 10)In [2]: print(list(obj)) [0, 1, 2, 3, 4, 5, 6, 7, 8, 9] range(start, stop) In [3]: obj = range(5, 15)print(list(obj)) [5, 6, 7, 8, 9, 10, 11, 12, 13, 14] step in range In [4]: obj = range(2, 50, 2)print(list(obj)) [2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48] **Nested Loops** In [5]: # outer loop for j in range (2,11): print('Table of :', j) # inner loop **for** i **in** range(1,11): # print multiplication print('{:2d} X {:2d} = {:2d}'.format(j,i, 2\*i).center(20)) print('\nEnd of multiplication table of ', j, '\n') print('Thank You') Table of : 2  $2 \times 1 = 2$  $2 \times 2 = 4$ 2 X 3 = 6 $2 \times 4 = 8$  $2 \times 5 = 10$  $2 \times 6 = 12$  $2 \times 7 = 14$  $2 \times 8 = 16$  $2 \times 9 = 18$  $2 \times 10 = 20$ End of multiplication table of 2 Table of : 3  $3 \times 1 = 2$  $3 \times 2 = 4$  $3 \times 3 = 6$  $3 \times 4 = 8$  $3 \times 5 = 10$  $3 \times 6 = 12$  $3 \times 7 = 14$  $3 \times 8 = 16$  $3 \times 9 = 18$  $3 \times 10 = 20$ End of multiplication table of 3 Table of : 4  $4 \times 1 = 2$  $4 \times 2 = 4$  $4 \times 3 = 6$  $4 \times 4 = 8$  $4 \times 5 = 10$ 4 X 6 = 12 $4 \times 7 = 14$  $4 \times 8 = 16$  $4 \times 9 = 18$  $4 \times 10 = 20$ End of multiplication table of 4 Table of : 5 5 X 1 = 2 $5 \times 2 = 4$ 5 X 3 = 6 $5 \times 4 = 8$  $5 \times 5 = 10$  $5 \times 6 = 12$  $5 \times 7 = 14$  $5 \times 8 = 16$  $5 \times 9 = 18$  $5 \times 10 = 20$ End of multiplication table of 5 Table of : 6  $6 \times 1 = 2$  $6 \times 2 = 4$ 6 X 3 = 6 $6 \times 4 = 8$  $6 \times 5 = 10$  $6 \times 6 = 12$  $6 \times 7 = 14$  $6 \times 8 = 16$  $6 \times 9 = 18$  $6 \times 10 = 20$ End of multiplication table of 6 Table of : 7  $7 \times 1 = 2$  $7 \times 2 = 4$  $7 \times 3 = 6$  $7 \times 4 = 8$  $7 \times 5 = 10$  $7 \times 6 = 12$  $7 \times 7 = 14$  $7 \times 8 = 16$  $7 \times 9 = 18$  $7 \times 10 = 20$ End of multiplication table of 7 Table of : 8  $8 \times 1 = 2$  $8 \ X \ 2 = 4$ 8 X 3 = 6 $8 \times 4 = 8$  $8 \times 5 = 10$  $8 \times 6 = 12$  $8 \times 7 = 14$  $8 \times 8 = 16$  $8 \times 9 = 18$  $8 \times 10 = 20$ End of multiplication table of 8 Table of : 9  $9 \times 1 = 2$  $9 \ X \ 2 = 4$ 9 X 3 = 6 $9 \times 4 = 8$  $9 \times 5 = 10$ 9 X 6 = 12 $9 \times 7 = 14$  $9 \times 8 = 16$  $9 \times 9 = 18$  $9 \times 10 = 20$ End of multiplication table of 9 Table of : 10  $10 \ X \ 1 = 2$  $10 \ X \ 2 = 4$ 10 X 3 = 610 X 4 = 810 X 5 = 1010 X 6 = 12 $10 \times 7 = 14$ 10 X 8 = 16 $10 \times 9 = 18$  $10 \times 10 = 20$ End of multiplication table of 10 Thank You **Loop Control Statements** In [6]: for s in 'Python': **if** s == 'h': break print(s) print('End of Loop') Р У End of Loop In [7]: for s in 'Python': **if** s == 'h': continue print(s) print('End of Loop') Р У 0 End of Loop **Loop Else Statements** In [8]: for i in range(5): food = input('Enter edible item :') if food == 'spam': print('No more spam please !!') break print('Great Delicious ') print('I am so glad !! No Spam') print('Finally finshed stuffing myself!!') Enter edible item : Great Delicious Enter edible item :spam No more spam please !! Finally finshed stuffing myself!! In [9]: for i in range(5): food = input('Enter edible item :') if food == 'spam': print('No more spam please !!') break print('Great Delicious ') else : print('I am so glad !! No Spam') print('Finally finshed stuffing myself!!') Enter edible item : Chocolate Great Delicious Enter edible item :strawberry Great Delicious Enter edible item :spam No more spam please !! Finally finshed stuffing myself!! simpl<sub>i</sub>learn ©Simplilearn. All rights reserved.