| 1     | Chapter 6 - Conditional Expressions   |
|-------|---|
| 13151 |   |
|       | Sometimes we want to play puls on our phone if the day is sunday.  Sometimes we order Tuecream online if the day                            |
|       | If the day is sunday.   |
|       | Sometimes we order recream online if the day  |
|       | Gometimes we go hiking if our farents allow.  |
|       | All these are decisions which depends on a  |
| -     | Condition being met.  |
|       | In rython programming too, we must be able  |
|       | to execute instructions on a condition (s) being net  |
|       | In Python programming too, we must be able to execute instructions on a condition (s) being net. This is what conditionals are for!         |
|       | If else and elif in Duthan  |
|       | It else and elif statements are a multiviar decision  |
|       | Labora hy our brooken due to contain conditions in  |
|       | If else and elif in Python  If else and elif statements are a multiway decision taken by our program due to certain conditions in our code. |
|       | Owe code.   |
|       | Syntax:   |
|       | ognitax.  |
| 7     | Indentation ( (condition 1 is true  |
|       | elif (condition 2):   print (" yes")  elif (condition 2):   print (" No")   |
|       | elif (condition 2):   if condition 2 is true  |
|       | else:   |
|       |   |
|       | print ("Maybe")   |
| 9     | Code example:   |
|       | Q = 22  |
| SI.   | if(a>9):  |
|       | brint /" Greater "  |
|       |   |
|       | print ("   esser")  |
|       |   |
|       |   |

| agent of the same | HAJII U  | EDG3  |
|-------------------|--|---|
|                   | EK133  |   |
| madu)             | Important notes: There can be any number last else is executed on  | er of elif statements.  ly if all the Conditions inside |
|                   | elik fall:   | Kelational Operation                                    |
| Area in           | has louders of hear  | Relational operators are                                |
| Lating.           | A Ly schinger's many state   | analote the life stolene                                |
|                   |  | : DIVER DE LA COLLE :                                   |
|                   | and the second second  |   |
|                   |  | Slaugh to   |
|                   | (fi. page)   | HOST KLOWN TO IN  |
|                   |  |   |
|                   |  | Lagrand absorbers                                       |
|                   | ers operate on condition   | large lation wither it                                  |
|                   |  | will kindemints - Extended                              |
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| V.                |  | and - the mit op  |
| N/A               | The substant of the start  | 1075  |
|                   | The training of the same   | the rust - Linson - TON                                 |
|                   |  | Saint Illa  |
| 115               | with a lot of these  | the display to a free we                                |
|                   | an the hatchest  | topology themselves                                     |
|                   |  | March 117   |
| i i               |  |   |
| 119               | The same taken and the   | 1/2 inthony 1/19  |
|                   | This As  | the last  |
|                   | (4)  | ely (million 3)   |
|                   |  | abol to   |

|     | EDG3   |
|-----|--|
| 1   | Wrik a program to find greatest of four numbers entered by the user.   |
|     | Write a program to find out whether a Student is pass or fail, if it requires total 40% and at least 33% in each subject to pass Assume 3 Subjects and take marks as an input from the user. |
| 3 = | A spam comment is definded as a text containing following keywords: "make a lot of money" buy now, subscribe this, "click this". Write a program to detect these spams.                      |
| 4 = | Write a program to find whether a given username Contains less than 10 characters or not.  |
| 5 = | Write a program which finds out whether a given name is present in a list or not.  |
| 6 = | Write a program to salculate the grade of a  Student from his marks from the following  Scheme:  90-100 \rightarrow Ex  80-90 \rightarrow A  70-80 \rightarrow B  60-70 \rightarrow C        |

|            | EDG3   |
|------------|--|
| 7<br>denta | Write a program to find out whether a given post is talking about "Harry" or no  |
|            | The way to prest of  |
| Just       | or a manufacture time for more or  |
| Vin VK     | For love wayers to file los to soo i   |
| 300        | 3 wheels and take named all and input of   |
| Linuma (   | a popular comment is definded as a test of the comment is the comment of the comm |
| Linney L   | white is suprained a proposed as their spece of state -  |
| Africa     | some is present in a list or not   |
| i i        | chart of papers to calculate the grade ?   |
|            | 12 - 100 - OF  |
|            | 9 - 0/-118   |
|            | C - ON OF  |
|            |  |
|            | A LA   |

## Chapter 7 - Loops in Python Sometimes we want to repeat a set of statements in our program. For instance: Print 1 to 1000 Loops make it easy for a programmer to tell the computer, which set of instructions to repeat and how! Types of loops in Python Primarily there are two types of loops in Python 1- While loop 27 for bop We will look into these one by one! The syntax of a while loop looks like this: While Condition: => The block Reeps executing until the condition is true In while loops, the condition is checked first If it evaluates to true, the Body of the loop is executed, otherwise not! If the loop is entered, the process of [Condition Check & execution] is continued until the condition becomes false. Quick aug: Write a program to print 1 to 50 using a while loop.

|                | An Example   |
|----------------|--|
| ani<br>Au      | i = 0  while i < 5:  print ("Harry")  i = i + 1  |
| 100            | Note: If the condition never becomes false, the  |
|                | Quick Quiz: Write a program to print the content of a list using while loops.  |
|                | For loop as used to iterate through a sequence litely list, tuple or string [Herables]   |
|                | The syntax of a for loop looks like this:  |
| 41             | l= [1, 7, 8]  for item in l:  print (item) 	print 1, 7 and 8   |
| desta<br>desta | Range function in Python The range function in python is used to generate a sequence of numbers. We can also specify the Start, Stop and Step-Size |
|                | range (Start, Stop, Step size is usually not used with range ()  |
|                |  |

|       | An Example demonstrating range () function   |
|-------|--|
|       | Cor i in vamor (n 7): -> range (7) (an also be used  |
|       | for i in range (0, 7):  → range (7) can also be used  print (i)  → prints 0 to 6                                   |
|       | print (t)  |
|       | Tou look with else   |
|       | For loop with else from be used with a for loop if the code is to be executed when the loop exhausts               |
|       | if the code is to be executed when the look exhausts   |
|       | Trankle o  |
|       | LACTURE .  |
|       | Con ile !  |
|       | for item in l:  print (item)  else:  |
| -     | print (1904)   |
|       | tise:  This is beinded when the  |
|       | print ("Done") -> This is printed when the   |
| _     |  |
| _     | Output:  |
|       | - de le la   |
|       | T C C C C C C C C C C C C C C C C C C C  |
|       |  |
|       | Done   |
| 8     | Ti land obtement   |
|       | The break statement  |
| _     | 'break' is used to come out of the loop when encountered It instructs the program to - Exit the loop now           |
| _     | It instances the program to - exit the pop tow   |
| -     |  |
|       | Example:   |
|       | this will beint a 1 2  |
|       | Example:  for i in range $(0, 80)$ :  print $(i)$ $\rightarrow$ This will print $0, 1, 2$ if $i=3$ :  and 3  break |
| I A   | if i == 3: and 3 $break$   |
|       | Druge  |
| 11(2) |  |

The continue Statement 'Continue' is used to stop the current iteration of the loop and continue with the next one It instructs the program to "skip this iteration" Example: pass stakment
pass is a null stakement in python
It instructs to "Do nothing" Example: l = [1, 7, 8]for item in l:
pass → Without pass, the program
Will throw an cruor