I user defined function def add (x,y) outern not - 4 usage oresult = add (2,3) point (viesult) User injout User input in Rython allows interaction with by the user during vintime. It Taking useer conput in Python. num = input ("Enter a number:") point (num) It type checking of a user input variable Lype (num) At Output LClass Istal) User Input 2 Type Casting Type costing involves converting this imput into a specific data type for accurate processing H Taking used input in Rython onum = In put ("Enter a number.") being (wow =# type casting num = float (num) It sype checking of a user input motale type (num) It Output

Conditional Statement # Checking if a number us even or odd. def check even odd (mamber) : if number 1. 2 = = 0; return 'Even' else: neturn 'Odd' # Example usage: result = check - even - odd (7) point (vesulo). # Exa Determining the sign of a number def check\_number\_sign (number): if number >0: setum (Positive) elif number <0: octrom Wegative else: several backgro # Example usage: result 2 check - number - sign (-5.) point (vieselt) (A so south a) prince or R. While Loop DA loop vis à fundamental properaronning concept snat allows to repeat a coltain D Loops help in autometing repetitiere fasts and improving code efficiency. The "while" cloop is a combrol flow statement that repeateally executes a block of while as long as a specified condition is some. A 'while True' cloop cheates am infinite loop

since the condition always force.

Exit Me chamism: "Ibneak" statement.

Example

while True:

usex\_imput = input ("Enter something (type the

'quit' to exit):")

if user\_imput. lower () == "quit":

print ("Exiting the loop.")

break # Break out of the loop when

the user enters "quit"

print (f" You entered: 2 user input?")