

Python Operators & Control Flow Guide Author: Madhu Dadi Tags: python Source: <https://madhudadi.in/blog/posts/p>

Explanation- The code evaluates six different relational comparisons between the numbers 4 and 5 using Python's

- Bitwise AND (&) compares each bit of two numbers and returns 1 only if both bits are 1, demonstrating binary digit

exist within various data structures. - The first two print statements check if the character 'D' and 'A' are present in

- If either the email or password doesn't match the expected values, it displays an error message- This demonstrates

Output[code block]Finding the minimum value among three integers using conditional logicExplanation- Takes three

Modules in Python: math, keyword, constant, random. Mathematical operations using Python's built-in math module functions.

[code block]Generate a random integer between 1 and 100 using Python's random moduleExplanation- The code i

- The `help()` function is a built-in Python function that provides interactive help. - By passing the string 'modules' to

- Initializes a variable x with a value of 1. - The while loop continues to execute as long as x is less than 3, printing

- The variable `i` takes on each value in the range during each iteration of the loop. - The `print(i)` statement outputs the

Output[`code block`]This code snippet counts down from 10 to 1 and prints each number.Explanation- The for loop it

- Each integer in the list is accessed one at a time and printed to the console. - This demonstrates a basic use of l

- The loop runs a total of 10 times, showing the population decrease at each step.`[code block]`Output`[code block]`S

[code block]Output[code block]Pattern (Number)This code generates a right-angled triangle pattern using asterisks

corresponds to the current iteration number. - This results in a right-angled triangle shape, with each row containing

prematurely.Explanation- The loop iterates over a range of numbers from 1 to 9. - When the loop variable i equals

- The code creates a loop that iterates through numbers from 1 to 9 using `range(1,10)`- When the loop variable `i` eq

Below 5 : 0%5-10 : 10%10-20 : 20%above 20 : 30%Calculate net monthly salary based on annual CTC with prog

[code block]Problem 3: Write a program that will take user input of cost price and selling price and determines whether

more precise conversions.`Output`Problem 5 - Exercise 12: Display Fibonacci series up to 1

For example: calculate the factorial of 5[code block]Output:[code block]This code calculates the factorial of a user-

- A while loop iterates as long as the number is greater than zero, extracting the last digit using the modulus operator

[code block]Output[code block]Problem 9: Write a program that keeps on accepting a number from the user until th

- Finally, prints the numbers in L as a comma-separated string.`[code block]`Output`[code block]`Problem 10: Write a

If the distance is a float, then just print the nearest integer. Example: Input: [code block] Output: [code block] This code

- A for loop iterates from 2 to one less than the input number, checking for divisibility. - If the number is divisible by a

Explanation:  
The minimum angle between hour and minute hand when the time is 9 is 90 degrees. This Python code

---References- Python Official Documentation â The Python Software Foundation- Python Built-in Functions â Py