

Task 1	Is the following condition true or false $x > 0$ and $x > y$ (i) $x = 10, y = 7$ (ii) $x = -5, y = -10$ (iii) $x = 3, y = -6$ (iv) $x = 5, y = 15$
Task 2	Is the following condition true or false $x \% 2 == 0$ or $y \% 3 == 0$ (i) $x = 10, y = 7$ (ii) $x = 5, y = 11$ (iii) $x = 12, y = 12$ (iv) $x = 5, y = 25$ (v) $x = 7, y = 9$
Task 3	Is the following condition true or false $x + y > 100$ and $x - y < 0$ (i) $x = 40, y = 30$ (ii) $x = 80, y = 90$ (iii) $x = 60, y = 60$ (iv) $x = 75, y = 30$ (v) $x = 50, y = 100$
Task 4	Is the following condition true or false $2 * x > y$ or $y \% 5 == 0$ (i) $x = 10, y = 17$ (ii) $x = 5, y = 15$ (iii) $x = 10, y = 24$ (iv) $x = 12, y = 36$ (v) $x = 10, y = 5$

Task 5	Write the condition for the following (i) True when both x and y are even, false otherwise (ii) True when either x is a multiple of 5 or y is a multiple of 6, false otherwise (iii) True when sum of x and y is greater than 50 and x is odd, false otherwise (iv) True when either the product of x and y is greater than 100 or y is less than zero, false otherwise (v) True when either x or y are negative, false otherwise
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Task 6	What will be printed on the screen <pre>x = 40 y = 150 if x>35 and y<200 : x = x+y; s1 = str(x) + ":" + str(y) print(s1)</pre> Also, what is the output when (i)x=15,y=100 (ii)x=80,y=70 (iii)x=50,y=150
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Task 7	What will be printed on the screen <pre>a = 23 b = 42 if a%2==0 or b%2==0: print("Hello") print("Done")</pre> Also, what is the output when (i)a=15,b=25 (ii)a=20,b=30 (iii)a=44,b=11
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Task 8	Given three numbers x,y and z print Equal if all of them are the same, otherwise print NotEqual	
Test Cases	Input	Expected Output
	x=20, y=30, z=20	NotEqual
	x=100, y=100, z=100	Equal
	x=50, y= 50, z=60	NotEqual
	x=10, y=14, z=14	NotEqual

Task 9	Given three numbers x,y and z print the largest number.	
Test Cases	Input	Expected Output
	x=20, y=30, z=40	40
	x=100, y=90, z=80	100
	x=50, y= 75, z=60	75
Task 10	Given three numbers x,y and z print Duplicate if two of them are same and Different otherwise.	
Test Cases	Input	Expected Output
	x=22, y=33, z=11	Different
	x=10, y=20, z=10	Duplicate
	x=6, y= 12, z=12	Duplicate
	x=25, y= 25, z=20	Duplicate
	x=16, y= 18, z=20	Different
Task 11	Given three sides of a triangle, a, b and c, print Right Angled Triangle if the three are sides of a right angled triangle. Remember Pythagoras Theorem.	
Test Cases	Input	Expected Output
	a=3, b=5, c=4	Right Angled Triangle
	a=12, b=5, c=13	Right Angled Triangle
	a=10, b=8, c=6	Right Angled Triangle
	a=4, b=5, c=6	Not a Right Angled Triangle
	a=10, b=12, c=14	Not a Right Angled Triangle