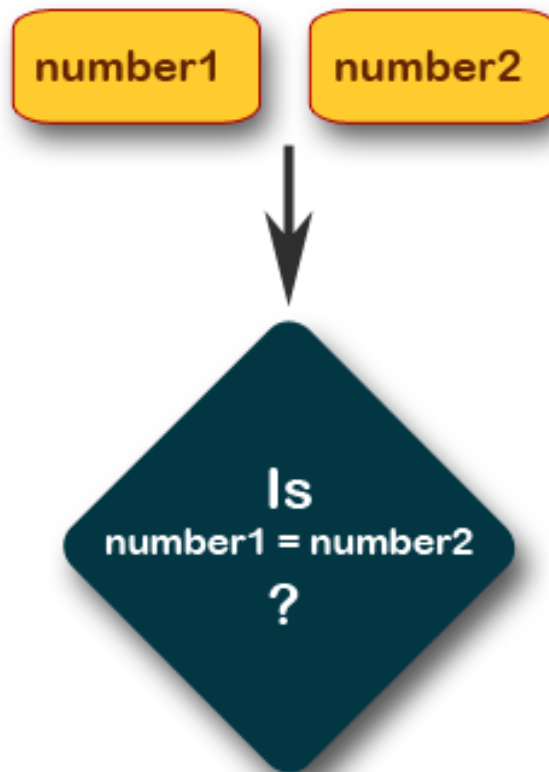


Python Conditional Statement Exercises

1. Write a Python program to accept two integers and check whether they are equal or not.



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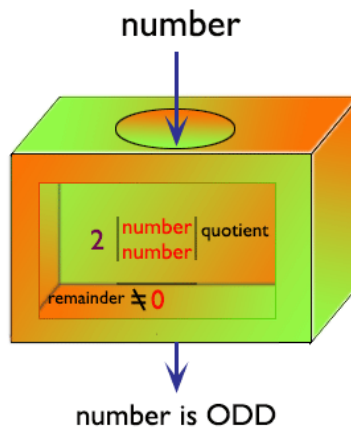
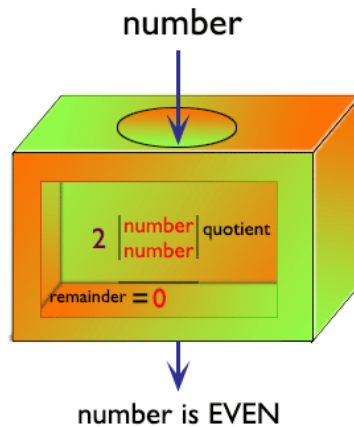
Test Data : 15 15

Expected Output :

Number1 and Number2 are equal

2. Write a Python program to check whether a given number is even or odd.

**Check the number
is even or odd**



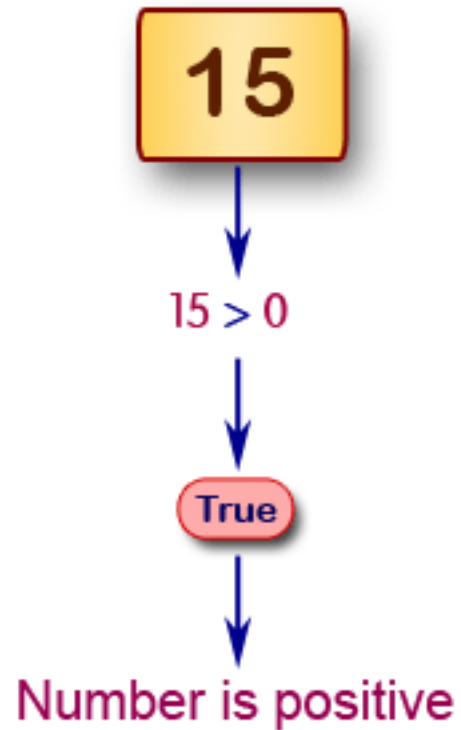
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Test Data : 15

Expected Output :

15 is an odd integer

3. Write a Python program to check whether a given number is positive or negative.



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Test Data : 15

Expected Output :

15 is a positive number

4. Write a Python program to find whether a given year is a leap year or not.

Leap Year Test



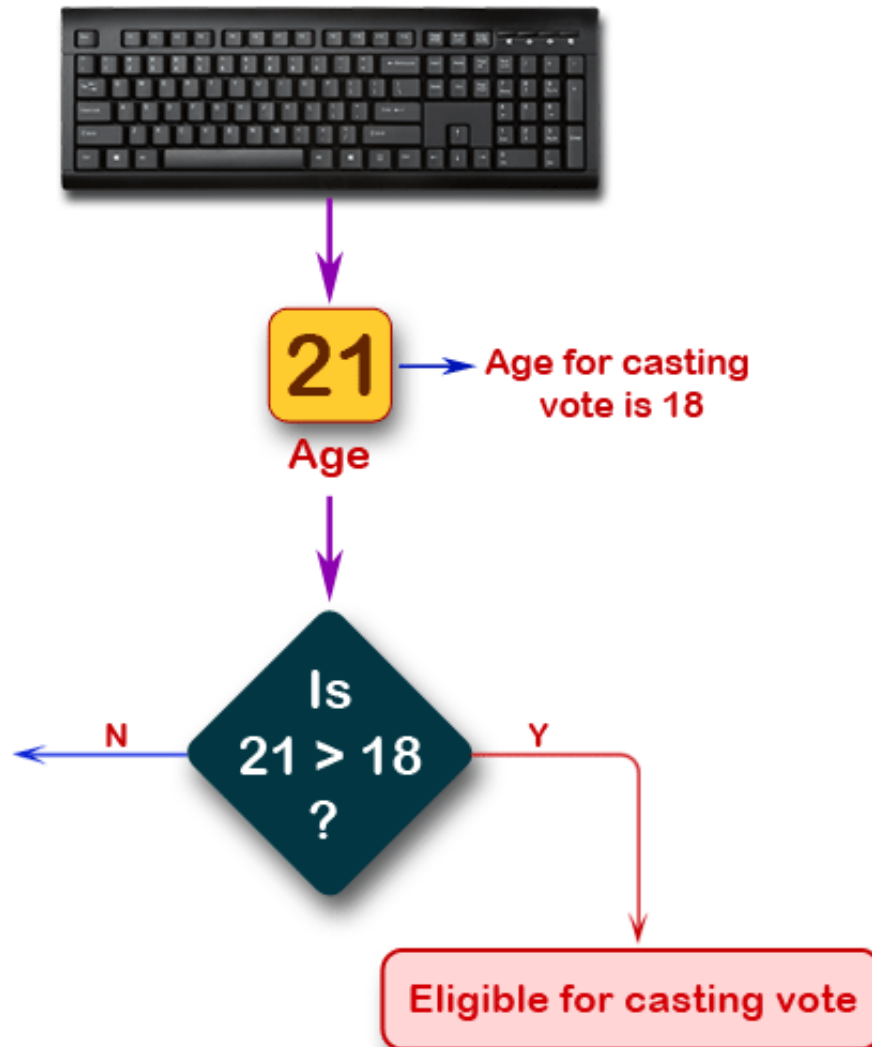
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Test Data : 2016

Expected Output :

2016 is a leap year.

5. Write a Python program to read the age of a candidate and determine whether it is eligible for casting his/her own vote.



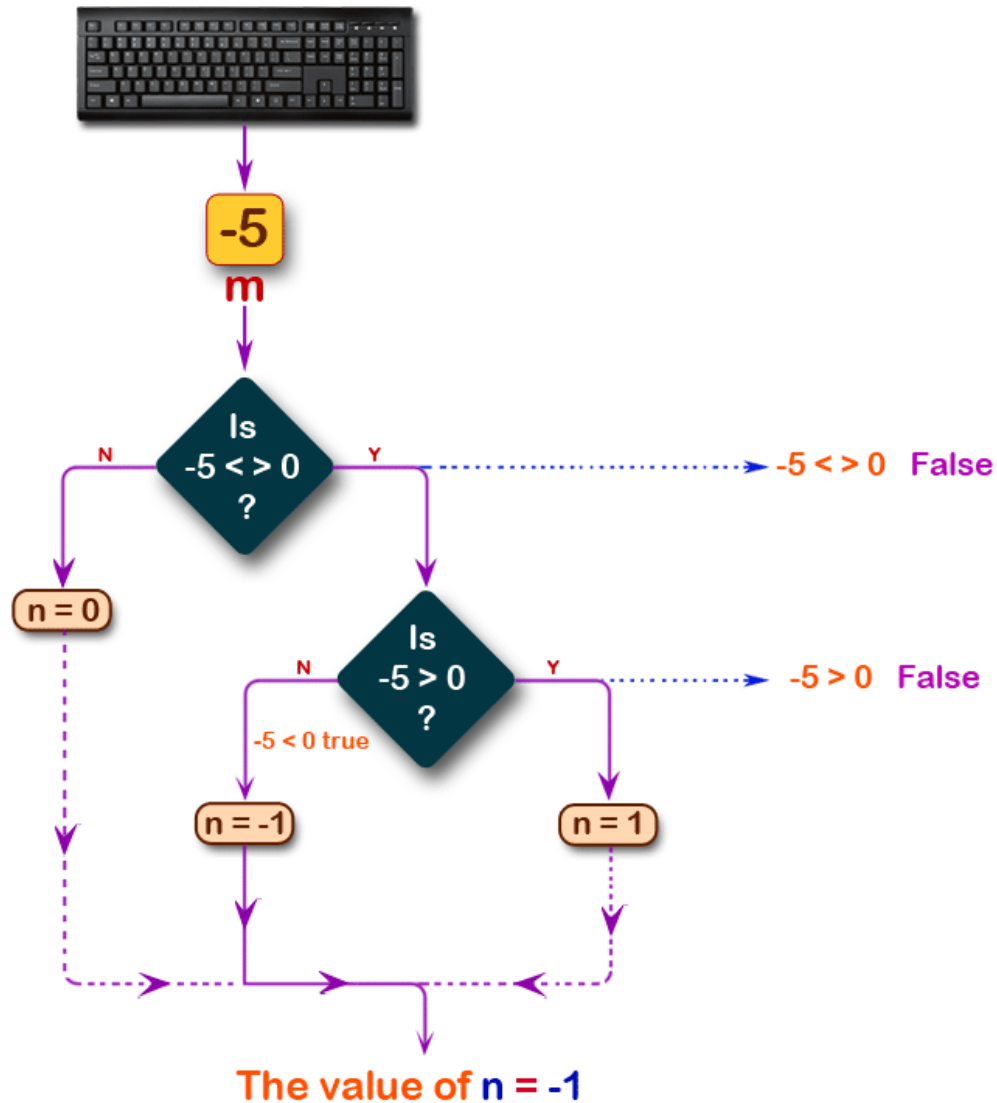
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Test Data : 21

Expected Output :

Congratulation! You are eligible for casting your vote.

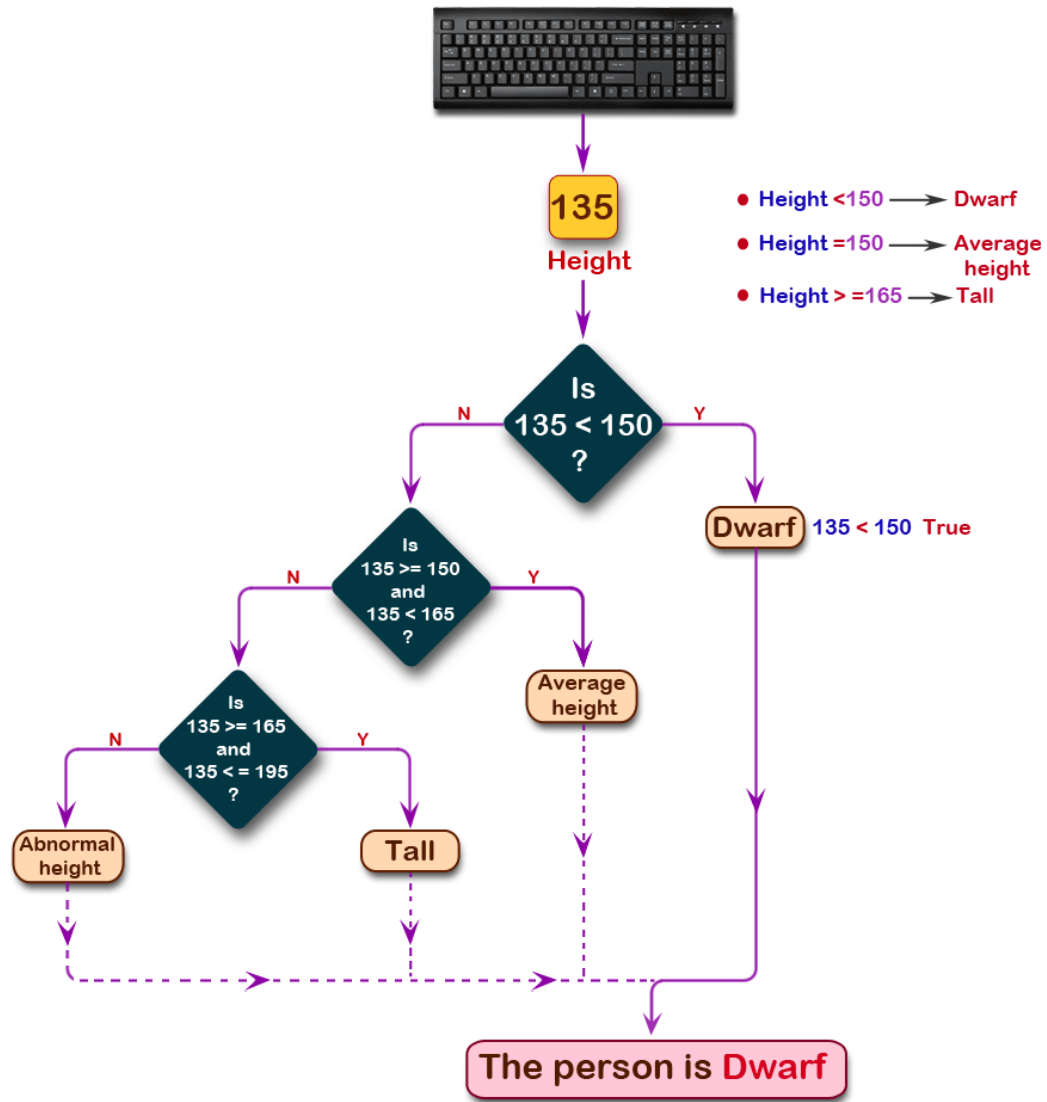
6. Write a Python program to read the value of an integer m and display the value of n is 1 when m is larger than 0, 0 when m is 0 and -1 when m is less than 0.



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Test Data : -5
Expected Output :
The value of n = -1

7. Write a Python program to accept the height of a person in centimeter and categorize the person according to their height.



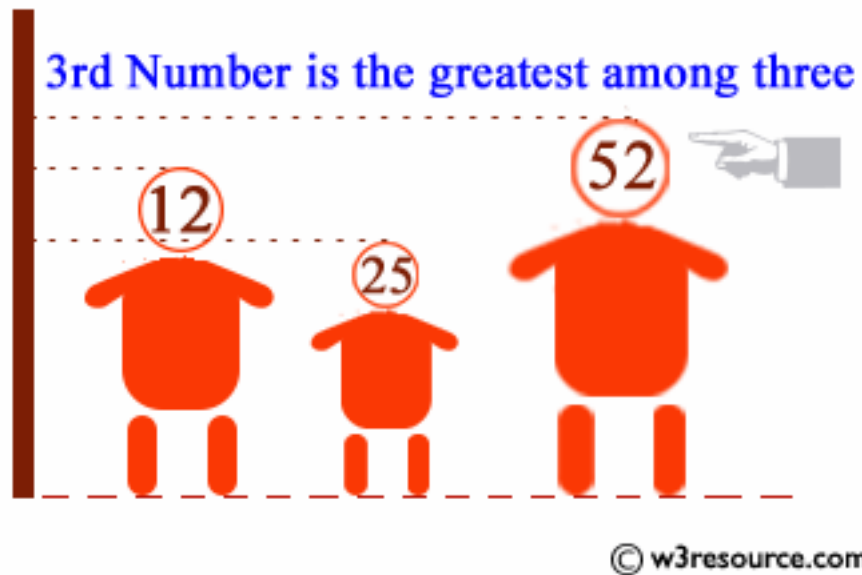
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Test Data : 135

Expected Output :

The person is Dwarf.

8. Write a Python program to find the largest of three numbers.



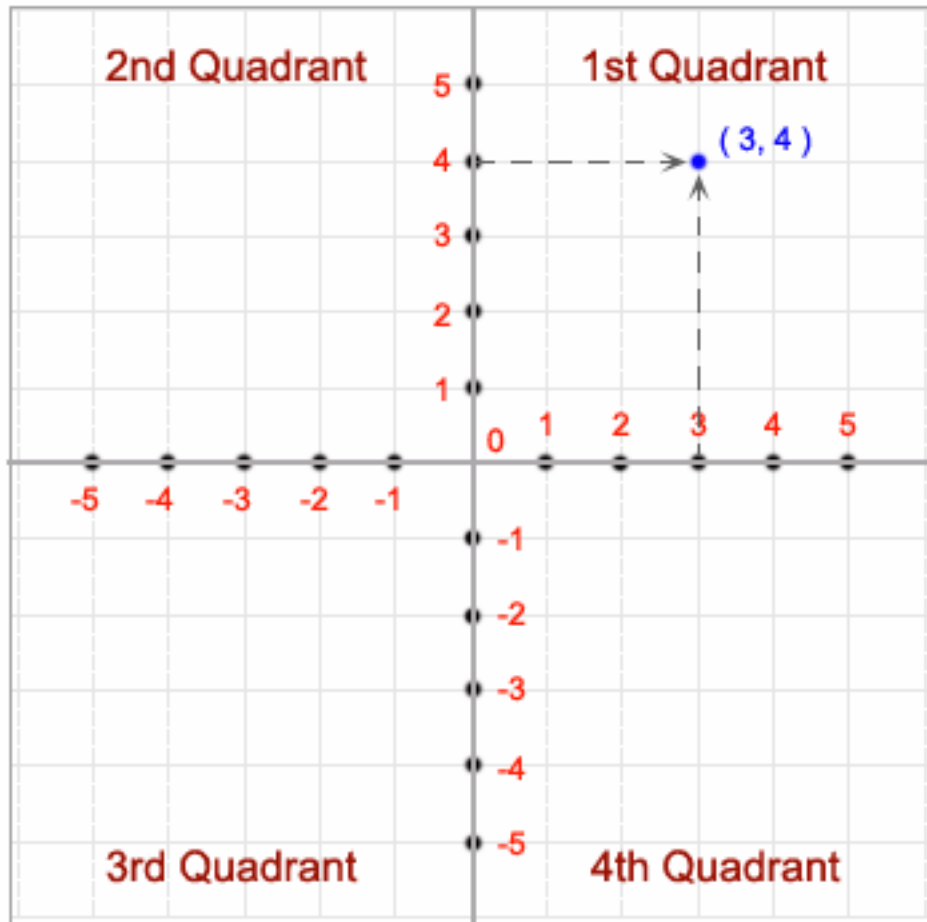
Test Data : 12 25 52

Expected Output :

1st Number = 12, 2nd Number = 25, 3rd Number = 52

The 3rd Number is the greatest among three

9. Write a Python program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies.



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Test Data : 7 9

Expected Output :

The coordinate point (7,9) lies in the First quadrant.

10. Write a Python program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths ≥ 65

Marks in Phy ≥ 55

Marks in Chem ≥ 50

Total in all three subject ≥ 180

or

Total in Math and Subjects ≥ 140

Test Data :

Input the marks obtained in Physics :65

Input the marks obtained in Chemistry :51

Input the marks obtained in Mathematics :72

Expected Output :

The candidate is eligible for admission.

11. Write a Python program to calculate the root of a Quadratic Equation.

The diagram illustrates the calculation of the roots of a quadratic equation. At the top, three boxes represent the coefficients: $a = 1$, $b = 5$, and $c = 2$. A downward arrow points from these boxes to the quadratic formula:

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Another downward arrow points from the formula to the final result:

The roots are
-0.4384471871911697
and -4.561552812808831

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Test Data : 1 5 7

Expected Output :

Root are imaginary;

No solution.

12. Write a Python program to read roll no, name and marks of three subjects and calculate the total, percentage and division.

Test Data :

Input the Roll Number of the student :784

Input the Name of the Student :James

Input the marks of Physics, Chemistry and Computer Application : 70 80 90

Expected Output :

Roll No : 784

Name of Student : James

Marks in Physics : 70

Marks in Chemistry : 80

Marks in Computer Application : 90

Total Marks = 240

Percentage = 80.00

Division = First

13. Write a Python program to read temperature in centigrade and display a suitable message according to temperature state below:

Temp < 0 then Freezing weather

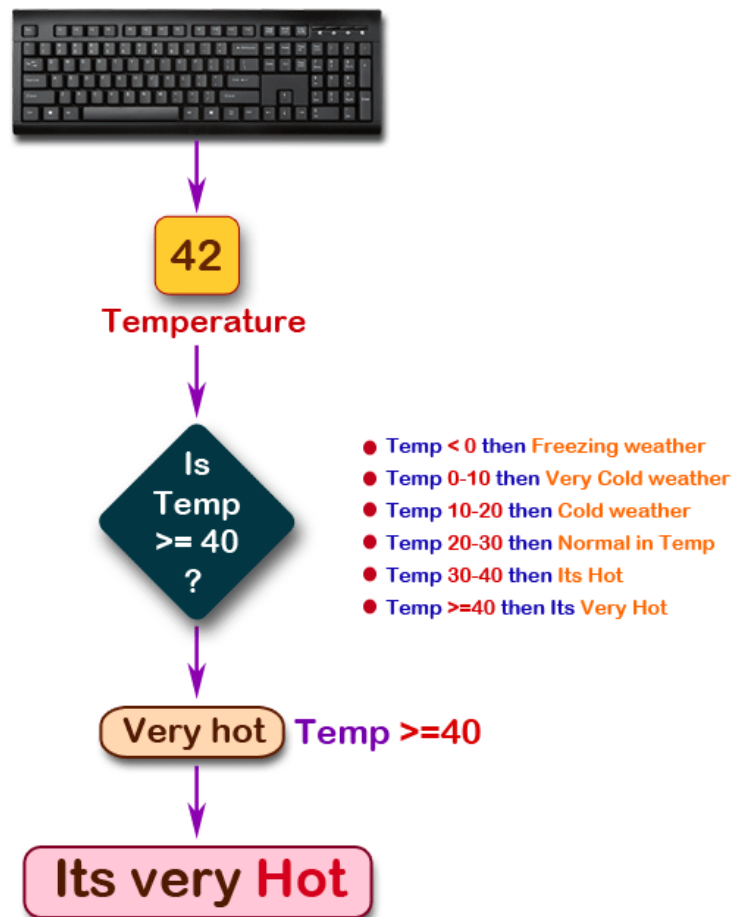
Temp 0-10 then Very Cold weather

Temp 10-20 then Cold weather

Temp 20-30 then Normal in Temp

Temp 30-40 then Its Hot

Temp >=40 then Its Very Hot



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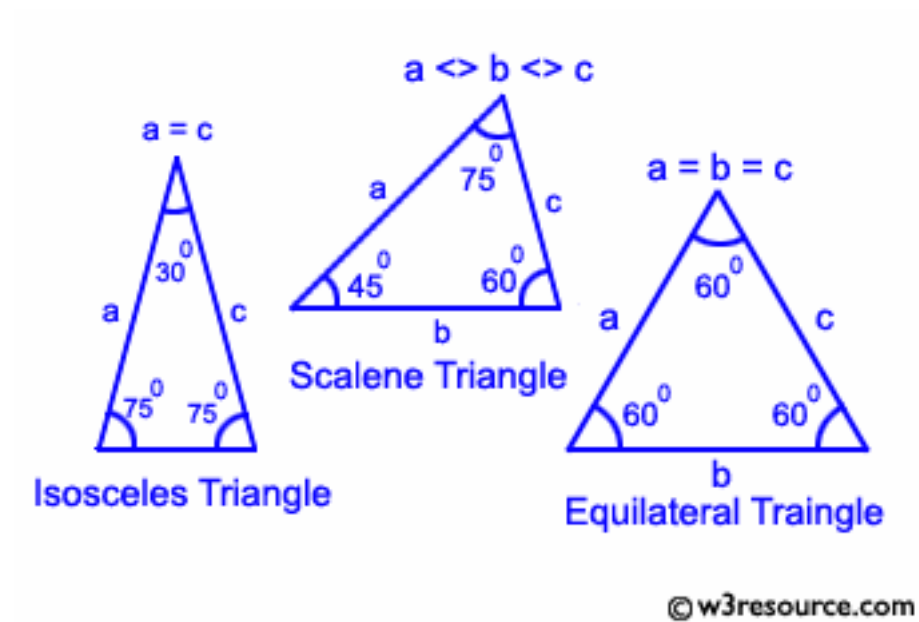
Test Data :

42

Expected Output :

Its very hot.

14. Write a Python program to check whether a triangle is Equilateral, Isosceles or Scalene.



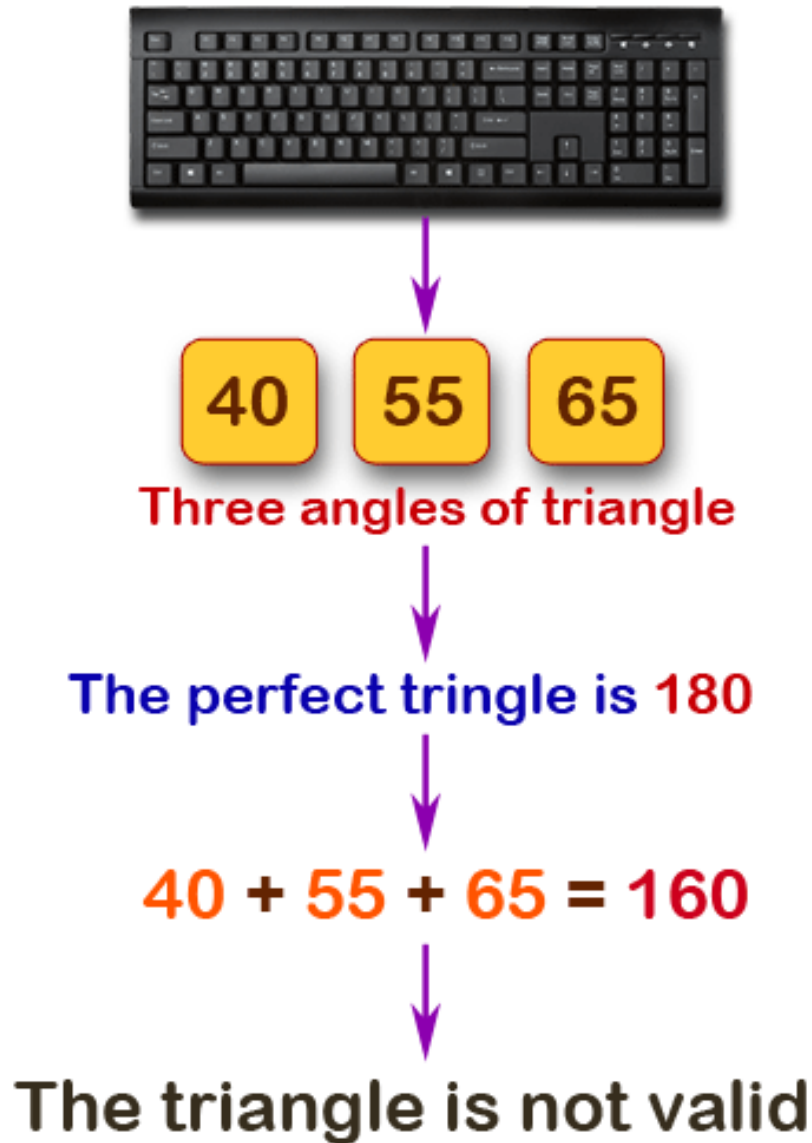
Test Data :

50 50 60

Expected Output :

This is an isosceles triangle.

15. Write a Python program to check whether a triangle can be formed by the given value for the angles.



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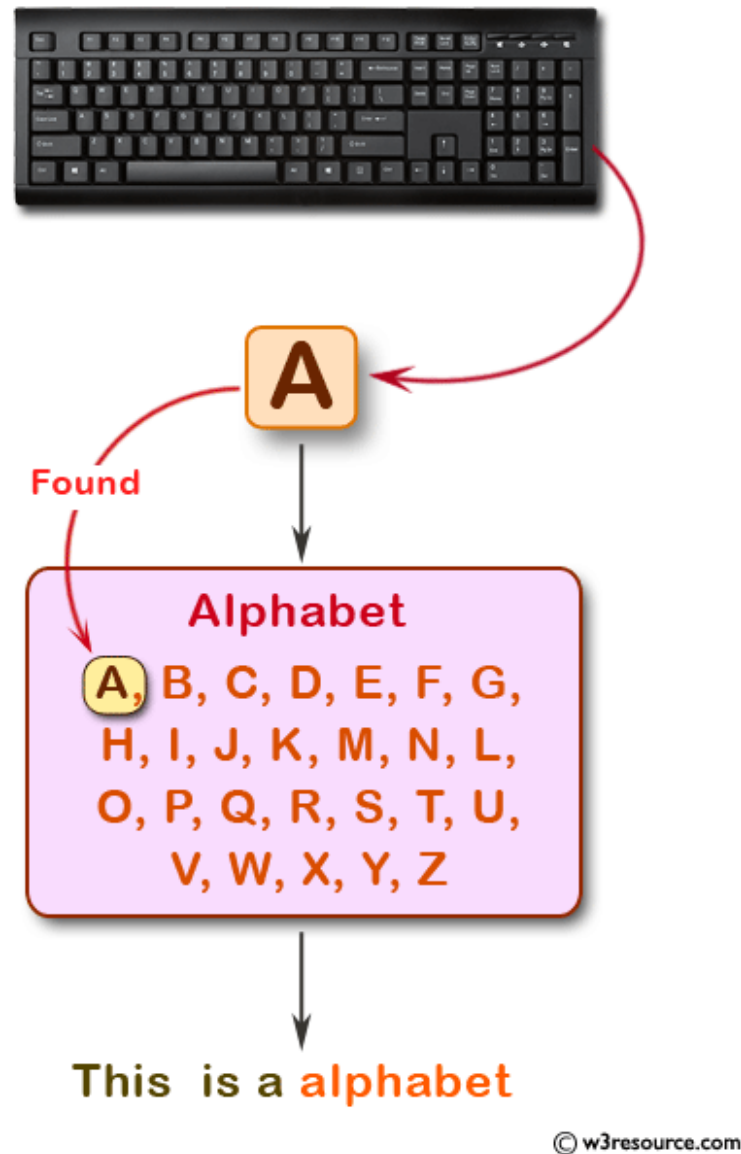
Test Data :

40 55 65

Expected Output :

The triangle is not valid.

16. Write a Python program to check whether a character is an alphabet, digit or special character.



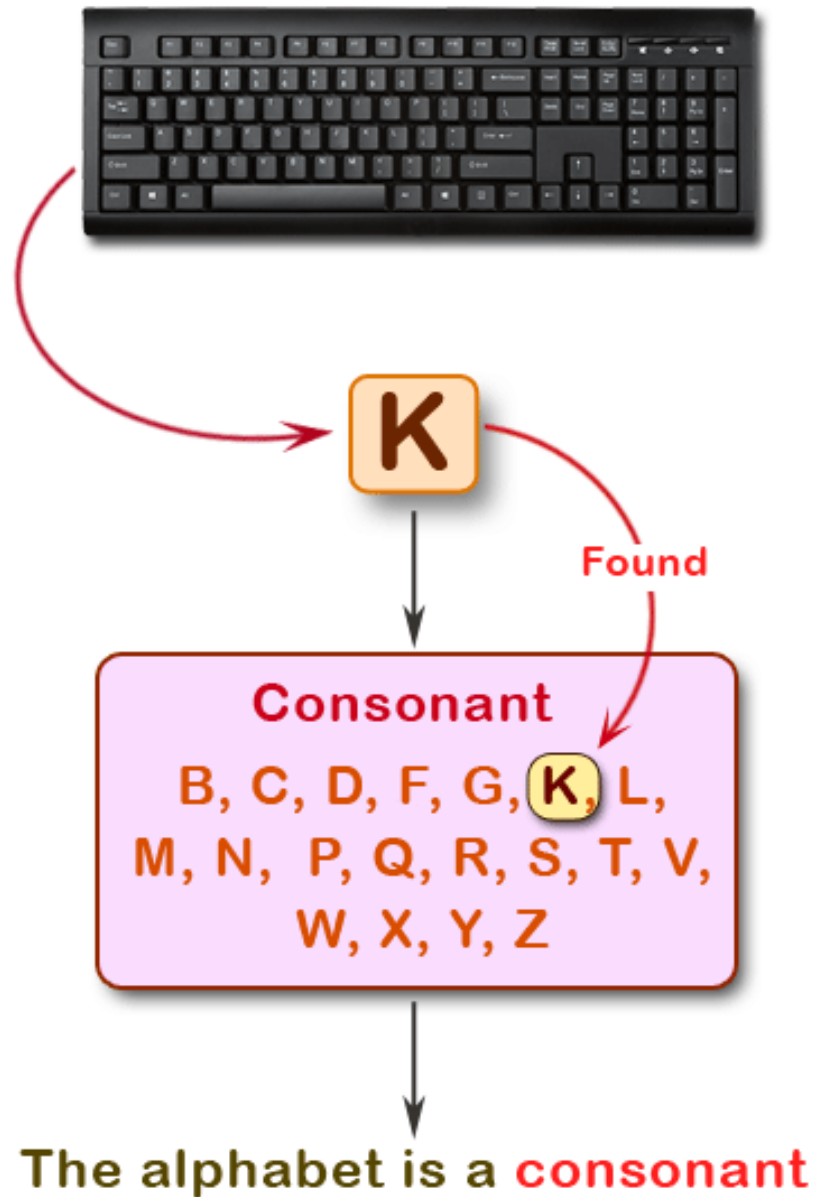
Test Data :

@

Expected Output :

This is a special character.

17. Write a Python program to check whether an alphabet is a vowel or consonant.



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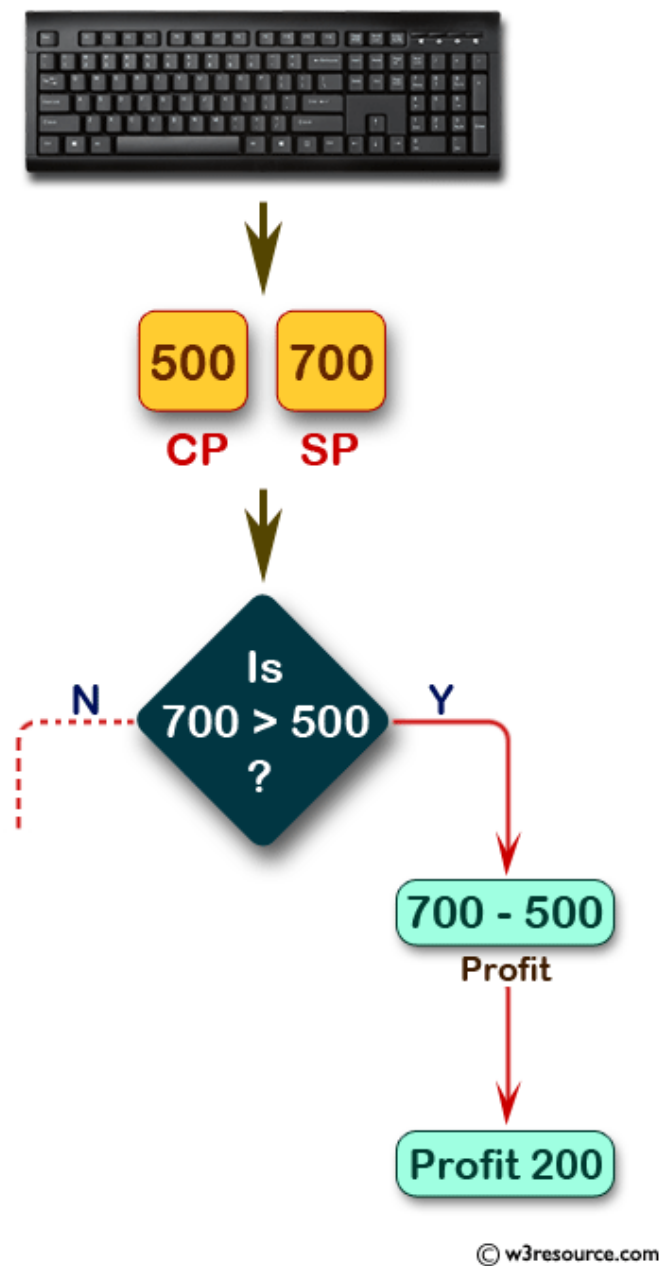
Test Data :

k

Expected Output :

The alphabet is a consonant.

18. Write a Python program to calculate profit and loss on a transaction.



Test Data :

500 700

Expected Output :

You can booked your profit amount : 200

19. Write a program in Python to calculate and print the Electricity bill of a given customer. The customer id., name and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer. The charge are as follow :

Unit	Charge/unit
upto 199	@1.20
200 and above but less than 400	@1.50
400 and above but less than 600	@1.80
600 and above	@2.00

If bill exceeds Rs. 400 then a surcharge of 15% will be charged and the minimum bill should be of Rs. 100/-

Test Data :

1001

James

800

Expected Output :

Customer IDNO :1001

Customer Name :James

unit Consumed :800

Amount Charges @Rs. 2.00 per unit : 1600.00

Surcharge Amount : 240.00

Net Amount Paid By the Customer : 1840.00

20. Write a program in Python to accept a grade and declare the equivalent description :

Grade	Description
E	Excellent
V	Very Good
G	Good
A	Average
F	Fail



Grade



Average

Grade	Description
● E	→ Excellent
● V	→ Very Good
● G	→ Good
● A	→ Average
● F	→ Fail

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Test Data :

Input the grade :A

Expected Output :

You have chosen : Average

21. Write a program in Python to read any day number in integer and display day name in the word.



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Test Data :

4

Expected Output :

Thursday

22. Write a program in Python to read any digit, display in the word.



Test Data :

4

Expected Output :

Four

23. Write a program in Python to read any Month Number in integer and display Month name in the word.



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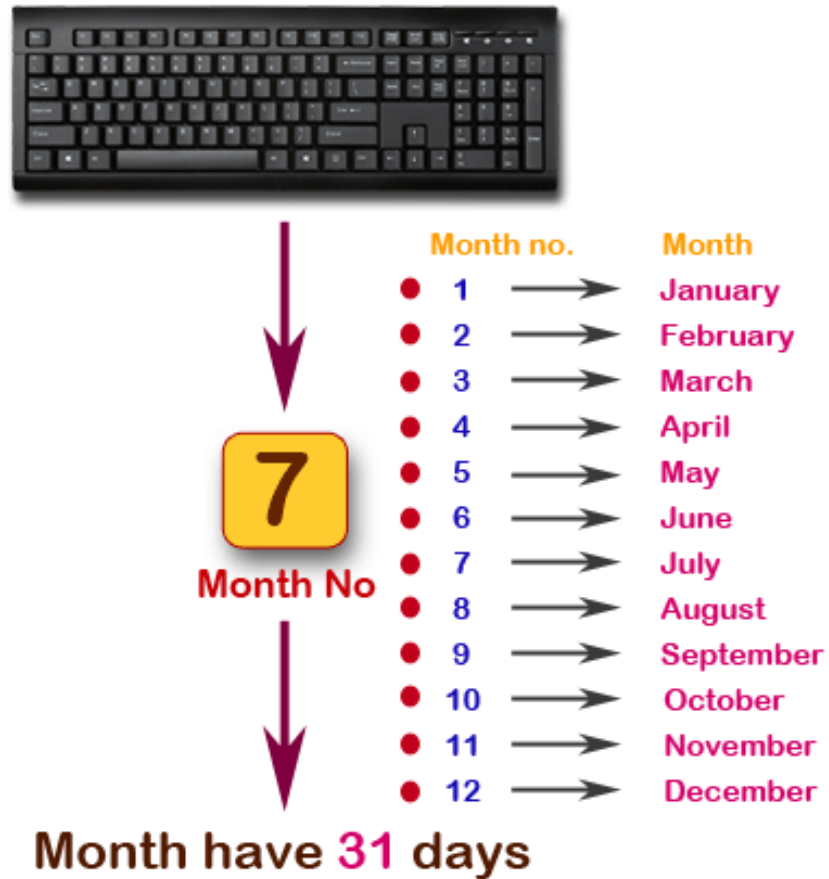
Test Data :

4

Expected Output :

April

24. Write a program in Python to read any Month Number in integer and display the number of days for this month.



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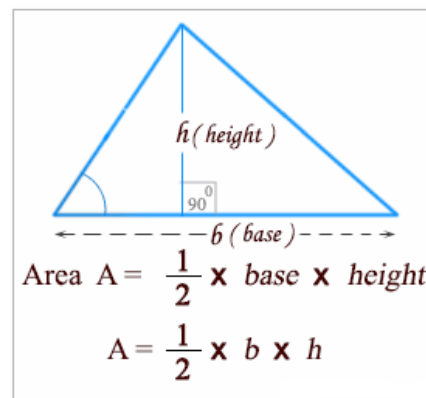
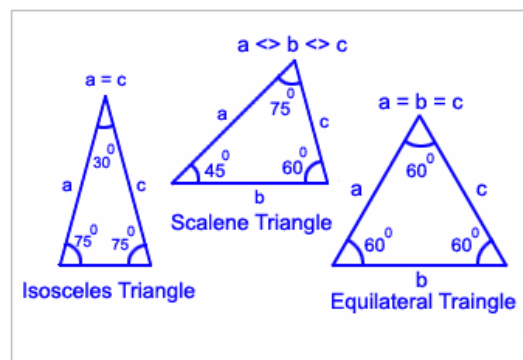
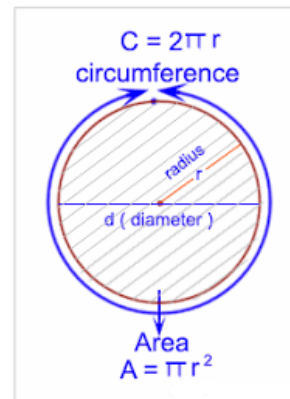
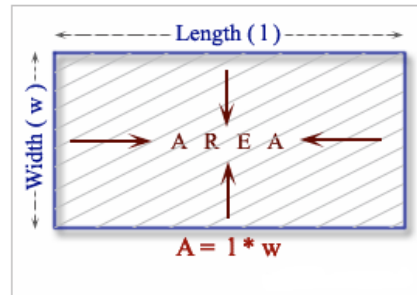
Test Data :

7

Expected Output :

Month have 31 days

25. Write a program in Python which is a Menu-Driven Program to compute the area of the various geometrical shape.



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Test Data :

1

5

Expected Output :

The area is : 78.500000

26. Write a program in Python which is a Menu-Driven Program to perform a simple calculation.

1st Integer

10

2nd Integer

2

Addition : 10 + 2 = 12

Substraction : 10 - 2 = 8

Multiplication : 10 X 2 = 20

Division : 10 / 2 = 5

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Test Data :

10

2

3

Expected Output :

The Multiplication of 10 and 2 is: 20