## **CnD Test**

**1.** Write a Python program to print the following string in a specific format (see the output).

Sample String: "Twinkle, twinkle, little star, How I wonder what you are! Up above the world so high, Like a diamond in the sky. Twinkle, twinkle, little star, How I wonder what you are"

## Output:

```
Twinkle, twinkle, little star,
How I wonder what you are!
Up above the world so high,
Like a diamond in the sky.
Twinkle, twinkle, little star,
How I wonder what you are
```

- 2. Write a Python program to add two objects if both objects are integers.
- 2. Write a Python program to sum three given integers. However, if two values are equal, the sum will be zero.
- 4. Write a Python program to solve (x + y) \* (x + y).

```
Test Data: x = 4, y = 3
Expected Output: (4 + 3) ^ 2) = 49
```

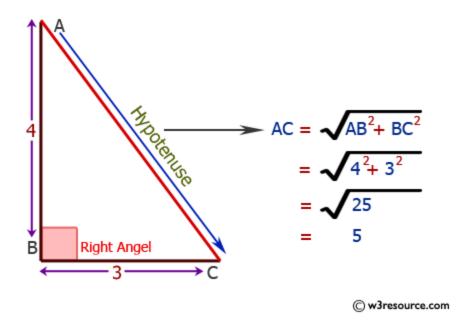
- 5. Write a Python program to calculate the distance between the points (x1, y1) and (x2, y2).
- 6. Write a Python program using loop to print '\*' to print n time without a newline, connected by '-' hyphens.

```
Test Data: n=10

Expected Output: *-*-*-*-*-*
```

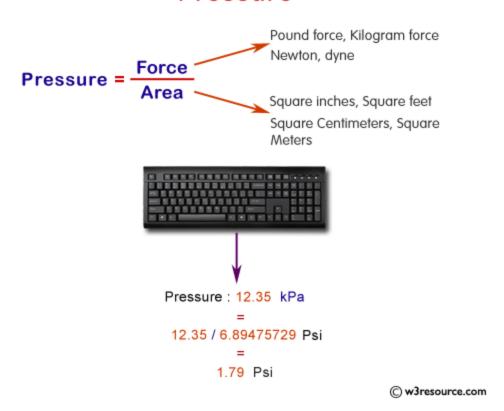
7. Write a Python program to calculate the hypotenuse of a right angled triangle.Both Base and Height will be provided by user.

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8. Write a Python program to convert pressure in kilopascals to pounds per square inch,a millimeter of mercury (mmHg) and atmosphere pressure.

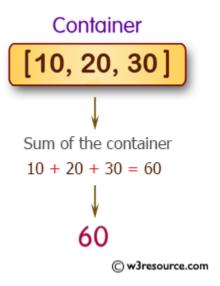
## **Pressure**



- 9. Write a Python program to calculate the midpoints of a line.
- 10. Write a Python program to sort three integers without using conditional statements and loops.
- 11. Write a Python program to get the details of the math module.
- 12. Write a Python program to calculate the sum of all items of a list provided by user

Sample:  $n=3 \rightarrow list(n)=10 20 30$ 

output: 60



13. Write a Python program to count the number of strings from a given list of strings if the string length is 2 or more and the first and last characters are the same.

Sample List : ['abc', 'xyz', 'aba', '1221']

Expected Result : 2

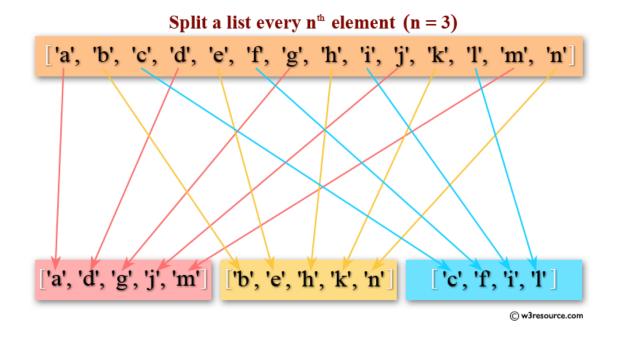
14. Write a Python program to get a list, sorted in increasing order by the last element in each tuple from a given list of non-empty tuples.

15. Write a Python program to select an item randomly from a list provided.

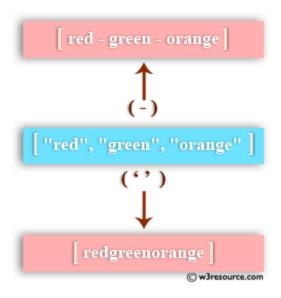
16. Write a Python program to get unique values from a list.

$$my_list = [10, 20, 30, 40, 20, 50, 60, 40]$$

17. Write a Python program to split a list every Nth element.



18. Write a Python program to concatenate elements of the given list.
color list = ['red', 'green', 'orange']



19. Write a Python program to insert a given string at the beginning of all items in a list.

Sample list: [1,2,3,4], string: emp

Expected output: ['emp1', 'emp2', 'emp3', 'emp4']

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20. Write a Python program to find items starting with a specific character from a list.

```
Original list:
['abcd', 'abc', 'bcd', 'bkie', 'cder', 'cdsw', 'sdfsd', 'dagfa', 'acjd']

Items start with a from the said list:
['abcd', 'abc', 'acjd']

Items start with d from the said list:
['dagfa']

Items start with w from the said list:
[]
```

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