Practice Set 2.1 – Loops, Conditions, and Functions

1. Write a Python function that accepts a list of strings and returns a string that contains all the words from the list.

```
input = ["hello", "goodbye", "omg", "wow"]
outPut: "hello goodbye omg wow "
```

2. Take two int values from user and print the greater one.

3. A school has the following grading system for marks:

- below 25 – F
- 25 to 44 – E
- 45 to 50 – D
- 51 to 60 – C
- 61 to 80 – B
- Above 80 – A

Ask the user to enter their mark and RETURN their grade.

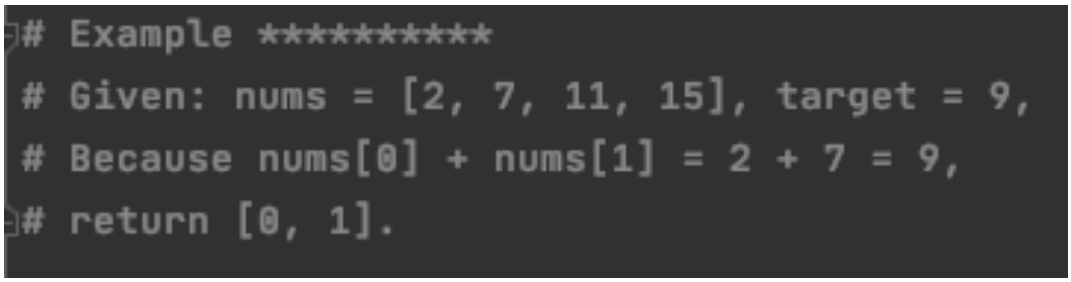
4. Write a Python **function** that will accept the base and height of a triangle and compute the area.

5. Write a Python **function** to solve $\sqrt{((x + y) * (x + y))}$. (hint – you may need to import the math library)

6. Write a Python program to compute the distance between the points: (x1, y1) and (x2, y2). Hint: There's a formula for this.

BONUS! (if you're up for a challenge)

7. Given a list of integers, return **indices** of the two numbers such that they add up to a specific target.



Here is some code to start you off:

```
1. def twoNumSum(nums, target):
2.     # your code here
3.
4. # test cases (you should test multiple cases):
5. twoNumSum([2, 7, 11, 15], 9) # this should return [0, 1]
6. twoNumSum([4, 9, 13, 20], 29) # this should return [1, 3]
```