

CREATE LIST OF LISTS USING ZIP IN PYTHON



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- If you wanted to create a list of lists that paired each other, you could use the command **zip**. **zip** takes two (or more) lists as inputs and returns an object that contains a list of pairs.



- Each pair contains one element from each of the inputs. You won’t be able to see much about this object from just printing it:

Syntax: output_object = zip(list1, list2)



Example:

- You are a student and you are trying to organize your subjects and grades using Python.

1.Create a list called **subjects** and fill it with the classes you are taking:

```
# write your code here
subjects = ['Linear Algebra', 'Calculus',
            'Statistics and Probability',
            'Machine Learning']
```



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2.Create a list called **grades** and fill it with your scores:

```
# write your code here
grades = [98, 97, 85, 88]
```



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3. Use the zip() function to combine subjects and grades.

Save this zip object as a list into a variable called **gradebooks**.

```
# write your code here
gradebooks = zip(subjects, grades)
```



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4. When you print, it will return the location of this object in memory. Output would look something like this: *<zip object at 0x7f3aa8508d80>*

```
# youre code here
print(gradebooks)
```

```
<zip object at 0x7f3aa8508d80>
```



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5. To see the nested lists, you can convert the zip object to a list first:

```
# your code here
list_pairs = list(gradebooks)
```



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5. Print the output:

```
print(list_pairs)
```

Output: *[('Linear Aljebra', 98), ('Calculus', 97), ('Statistics and Probability', 85), ('Machine Learning', 88)]*



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THANK YOU



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