

```
In [1]: #2D lists = a list of lists
drinks = ['coffee','soda','tea']
dinner = ['pizza','burger','hotdog']
dessert = ['cake','ice cream','pudding']
food = [drinks,dinner,dessert]
print(food)

[['coffee', 'soda', 'tea'], ['pizza', 'burger', 'hotdog'], ['cake', 'ice cream', 'pudding']]
```

```
In [2]: print(food[0])
print(food[1])
print(food[2])

['coffee', 'soda', 'tea']
['pizza', 'burger', 'hotdog']
['cake', 'ice cream', 'pudding']
```

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In [3]: #if we want to reach an item by indexing
print(food[0][0])
print(food[0][1])
print(food[0][2])

coffee
soda
tea
```

```
In [4]: print(food[1][0])
print(food[1][1])
print(food[1][2])

pizza
burger
hotdog
```

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In [5]: print(food[2][0])
print(food[2][1])
print(food[2][2])

cake
ice cream
pudding
```

```
In [6]: #there is a 3D lists
blackcoffe = ['Ethiopian','Colombian','Costa Rica']
coffe_with_milk= ['Spanish latte','cappuccino','flight white']
coffe = [blackcoffe,coffe_with_milk]
print(coffe)

[['Ethiopian', 'Colombian', 'Costa Rica'], ['Spanish latte', 'cappuccino', 'flight white']]
```

```
In [7]: menu = [food,coffe]#3D
print(menu)

[[['coffee', 'soda', 'tea'], ['pizza', 'burger', 'hotdog'], ['cake', 'ice cream', 'pudding']], [['Ethiopian', 'Colombian', 'Costa Rica'], ['Spanish latte', 'cappuccino', 'flight white']]]
```

```
In [8]: #indexing
print(menu[0][0][0])

coffee
```

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In [9]: print(menu[1][0][1])

Colombian
```

```
In [ ]:
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