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▼ Exercises

Answer the questions or complete the tasks outlined in bold below, use the specific method described if applicable.

**** What is 7 to the power of 4?****

```
[ ] print(7**4)
```

2401

**** Split this string:****

```
s = "Hi there Sam!"
```

into a list.

```
[ ] s="Hi there Sam!"  
    s=s.split()  
    print(s);
```

['Hi', 'there', 'Sam!']

**** Given the variables:****

```
planet = "Earth"
```



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**** Given the variables:****

```
planet = "Earth"  
diameter = 12742
```

**** Use .format() to print the following string: ****

```
The diameter of Earth is 12742 kilometers.
```

```
[ ] planet="Earth"  
    diameter=12742  
    print('The diameter of {} is {} kilometer:
```

```
        The diameter of Earth is 12742 kilomete
```

**** Given this nested list, use indexing to grab the word "hello" ****

```
[ ] 1st = [1,2,[3,4],[5,[100,200,['hello']],2:
```

```
[ ] 1st = [1,2,[3,4],[5,[100,200,['hello']],2:  
    print(1st[3][1][2][0])
```

**** Given this nest dictionary grab the word "hello".
Be prepared, this will be annoying/tricky ****

```
[ ] d = {'k1':[1,2,3,{'tricky':['oh','man','il
```



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**** Given this nest dictionary grab the word "hello".
Be prepared, this will be annoying/tricky ****

```
[ ] d = {'k1':[1,2,3,{'tricky':['oh','man','i  
print(d['k1'][3]["tricky"][3]['target'][3  
  
hello
```

**** What is the main difference between a tuple
and a list? ****

```
[ ] #Tuple is immutable  
    #Tuples operations are safe.  
    #List is mutable
```

**** Create a function that grabs the email website
domain from a string in the form: ****

```
user@domain.com
```

**So for example, passing "[user@domain.com](#)"
would return: domain.com**

```
[ ] def domainGet(email):  
    print("Your doman is:" +  
email.split('@')[-1])  
email = input( "Please enter your email:>  
domainGet(email)
```

**** Create a basic function that returns True if the**



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**** Create a function that grabs the email website domain from a string in the form: ****

```
user@domain.com
```

So for example, passing "user@domain.com" would return: domain.com

```
[ ] def domainGet(email):  
    print("Your doman is:" +  
          email.split('@')[-1])  
    email = input( "Please enter your email:>  
    domainGet(email)
```

**** Create a basic function that returns True if the word 'dog' is contained in the input string. Don't worry about edge cases like a punctuation being attached to the word dog, but do account for capitalization. ****

```
[ ] def findDog(st):  
    if 'dog' in st.lower():  
        print ("True")  
    st=input("Please key a string:>")  
    findDog(st)
```

```
[ ]
```

True



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**** Create a function that counts the number of times the word "dog" occurs in a string. Again ignore edge cases. ****

```
[ ] value='This dog runs faster than the othe
def countdogs(value):
    count=0
    for word in value.lower().split():
        if word=='dog' or word =='dogs':
            count=count+1
            print(count)
    countdogs(value)
```

```
[ ]
```

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▼ Problem

**You are driving a little too fast, and a police officer stops you. Write a function to return one of 3 possible results: "No ticket", "Small ticket", or "Big Ticket". If your speed is 60 or less, the result is "No Ticket". If speed is between 61 and 80 inclusive, the result is "Small Ticket". If speed is 81 or more, the result is "Big Ticket". Unless it is your birthday (encoded as a boolean value in the parameters of the function) -- on your birthday, your speed can be 5 higher in all cases. **



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▼ Problem

**You are driving a little too fast, and a police officer stops you. Write a function to return one of 3 possible results: "No ticket", "Small ticket", or "Big Ticket". If your speed is 60 or less, the result is "No Ticket". If speed is between 61 and 80 inclusive, the result is "Small Ticket". If speed is 81 or more, the result is "Big Ticket". Unless it is your birthday (encoded as a boolean value in the parameters of the function) -- on your birthday, your speed can be 5 higher in all cases. **

```
[ ] def caught_speeding(speed, is_birthday):  
    if is_birthday:  
        speeding = speed - 5  
    else:  
        speeding = speed  
  
    if speeding > 80:  
        return 'Big Ticket'  
    print("small Ticket ")
```

```
[ ] print("small Ticket")
```

Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retrieve each employee salary and calculate total salary expenditure.



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Create an employee list with basic salary values(at least 5 values for 5 employees) and using a for loop retrieve each employee salary and calculate total salary expenditure.

```
[ ] employees=["abc","def","ghi","jkl","mno",
n=0
amount=0
try:
    for employee in employees:
        employees= employees[n]
        amount=int(input(amount))
        total=sum(amount)
        n=n*1
        print(total)
except:
    print("you can only type integer for am
```

Create two dictionaries in Python:

First one to contain fields as Empid, Empname, Basicpay

Second dictionary to contain fields as DeptName, DeptId.

Combine both dictionaries.



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Create two dictionaries in Python:

First one to contain fields as Empid, Empname, Basicpay

Second dictionary to contain fields as DeptName, DeptId.

Combine both dictionaries.

```
[ ] sampleDic1={}
    "empid":3,
    "empname":"hari",
    "empbasicpay":"8000",
sampleDic2={}
    "DeptName":"civil",
    "DeptId":8,
print (sampleDic1 and sampleDic2)
```