

## Session 1: Review of Basic Python (Solutions Only)

### Case 1. Basestock Policy in Inventory Management

Write a function named `orderQuantity` that takes two input arguments, `inventory` and `basestock`. If `inventory` is at least equal to `basestock`, then return 0. Otherwise, return the difference between `basestock` and `inventory`. Set the default value for `inventory` to be 0 and for `basestock` to be 100. Include an appropriate docstring to explain what the function does.

```
[6]: def orderQuantity(inventory=0,basestock=100):  
    ''' Calculates order quantity given inventory level and basestock level '''  
    if inventory>=basestock:  
        return 0  
    else:  
        return basestock-inventory  
  
[7]: # Code to test your function  
    help(orderQuantity)  
    print(orderQuantity())  
    print(orderQuantity(25))  
    print(orderQuantity(51,50))  
    print(orderQuantity(basestock=200))  
    print(orderQuantity(inventory=80))
```

Help on function `orderQuantity` in module `__main__`:

```
orderQuantity(inventory=0, basestock=100)  
    Calculates order quantity given inventory level and basestock level
```

```
100  
75  
0  
200  
20
```

## Case 2. Blood Sugar Checker

Write a program that asks the user how many hours they have fasted and their current blood sugar level. If they have fasted less than 2 hours, then output You need to fast at least 2 hours to perform this test. If they fasted at least 2 hours but less than 8 hours, then output Your blood sugar level is high if it is more than 140, and Your blood sugar level is normal otherwise. If they have fasted for at least 8 hours, then the threshold changes to 100 (instead of 140).

```
[8]: hours=float(input('How many hours have you fasted: '))
    level=float(input('What is your blood sugar level: '))
    high_msg='You blood sugar level is high.'
    low_msg='Your blood suguar level is normal.'
    if hours<2:
        print('You need to fast at least 2 hours to perform this test.')
    elif hours<8:
        if level>140:
            print(high_msg)
        else:
            print(low_msg)
    else:
        if level>100:
            print(high_msg)
        else:
            print(low_msg)
```

```
How many hours have you fasted: 3
What is your blood sugar level: 50
Your blood suguar level is normal.
```