

# Week 7 In-class Exercises 1

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## 1) Creating Lists Practice

Create a list, for example

```
my_list = [1, 6, 3, 7, 3, 12, 16, 45, 4, 8]
```

### 1a) Write a program that prints the entire list

### 1b) Write a program that takes in the list and an index, then prints the element

```
def print_element_at_index(list, index):  
    # your code here
```

### 1c) Write a program that takes in the list and a value, then prints out the elements in the list that are less than the value

```
def print_less_than(list, value):  
    # your code here
```

## 2) Creating Lists Practice II

Generate a list that stores all the days in a week. Write a program that will print the day of the week [0-6] based on user input. Allow the user to specify either 'all' or a single day of the week. If the user asks for an invalid day of the week, e.g. Day 8, the program should print all days in the week.

### Sample Input #1

Day of the week: all

### Sample Output #1

[Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday]

### Sample Input #2

Day of the week: 6

### Sample Output #2

Sunday

### Sample Input #3

Day of the week: 8

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### Sample Input #3

Invalid day. Days of the week are 0=Monday 1=Tuesday 2=Wednesday  
3=Thursday 4=Friday 5=Saturday 6=Sunday