Name: (as it would appear on official course roster)	Shravan Sharath Shenoy
UCSB email address:	shravansharathshenoy @ucsb.edu
Lab Section:	Monday 9:00 AM
Optional: name you wish to be called if different from above	—
Optional: name of "homework buddy" (leaving this blank signifies "I worked alone")	—

h07: Dictionaries

Assigned: Tuesday, May 28th, 2019
Due: Tuesday, June 4th, 2019
Points: 100

- You may collaborate on this homework with AT MOST one person, an optional "homework buddy". MAY ONLY BE TURNED IN THE LECTURE LISTED ABOVE AS THE DUE DATE. There is NO MAKEUP for missed assignments; in place of that, we drop the single lowest score (if you a zero, that is the lowest score.)
- IMPORTANT: When submitting this homework:
  - **DO NOT USE STAPLES**
  - WRITE YOUR **NAME ON EACH PAGE** IN THE SPACE PROVIDED
  - USE DARK INK PENS – PLEASE **DO NOT USE PENCIL**
  - PRINT THIS HOMEWORK **DOUBLE-SIDED** PLEASE!
- **REMEMBER**: If you use code/techniques we have not learned in class, you will **NOT** get credit!

READING ASSIGNMENT: Read Chapter 6.1 in Perkovic, review your lecture slides/notes. Then complete these problems.

1. (35 pts) Below is a transcript of a shell session in Python. Fill in what would be printed by the shell after each set of statements. [Hint: TRY each one in Python.]

a. (2 pts)

```
>>> myDict = {"Mei":95, "Bob":85, "Jose":93, "Diana":100}
>>> myDict["Jose"]
```

93.

b. (3 pts)

```
>>> for item in myDict:
...     print(item)
```

Mei
Bob
Jose
Diana

c. (5 pts)

```
>>> myDict["Raj"] = 87
>>> names = list(myDict.keys())
>>> names.sort()
>>> names
```

['Bob', 'Diana', 'Jose', 'Mei', 'Raj']

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d. (5 pts)

```
>>> for name in names:
... print(myDict[name])
```

85
100
93
95
87

e. (5 pts)

```
>>> for name in names:
... print(name,": ",myDict[name])
```

Bob : 85
Diana : 100
Jose : 93
Mei : 95
Raj : 87

f. (10 pts)

```
>>> for name in sorted(myDict):
... print(name,": ",myDict[name])
```

Bob : 85
Diana : 100
Jose : 93
Mei : 95
Raj : 87

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2. (30 pts) Write a function named **week()** that takes no arguments. It will repeatedly ask the user to enter an abbreviation for a day of the week (Mo, Tu, We, Th, Fr, Sa, or Su) and then print the corresponding day. If the user enters anything other than one of those 7 abbreviations, the program ends. You **MUST** use a dictionary in your solution or you won't get any credit. If you write the definition in ***7 lines total, or fewer, you get 10 extra credit points!***

   An example run would look like this:

```
Enter weekday abbreviation: Tu
Tuesday
Enter weekday abbreviation: Sa
Saturday
Enter weekday abbreviation:
```

(there's nothing that's printed out at the end – the program just quits)

```
myDict = { "Su": "Sunday", "Mo": "Monday", "Tu": "Tuesday", "We": "Wednesday", "Th": "Thursday",
           "Fr": "Friday", "Sa": "Saturday" }
def week():
    input("Enter weekday abbreviation: ")
    x = input("Enter weekday abbreviation: ")
    if x != "Su" or "Mo" or "Tu" or "We" or "Th" or "Fri" or "Sa":
        return None
    else:
        return myDict[x]
```

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3. (35 pts) Write a function named **`printSorted()`** that takes a dictionary as its only input parameter, and it prints out the key/value pairs in order by key.

```
def printSorted(myDict):
    z = []
    for i in myDict:
        z.append(i)
    z.sort()
    for a in z:
        print(a, myDict[a])
```