CS 100
Fall 2015
Lab #8

1. Write a function called **jumping_the_shark** that takes one string (i.e., a row vector of type **char**) as an input argument (it does not have to check the format of the input) and returns one string as an output argument. If it is called like this, **s2 = jumping_the_shark(s1)** then **s2** is identical to **s1** except that every occurrence of the string '**shark**' has been removed. Here is an example of the function in action:

```
>> s1

s1 = The only good shark is a dead shark, excepting sand
sharks.

>> safe_to_go_in = jumping_the_shark(s1)

safe_to_go_in = The only good is a dead excepting sand.
```

2. Write a function called **raising_the_bar** that takes one string (i.e., a row vector of type **char**) as an input argument (it does not have to check the format of the input) and returns one string as an output argument. If it is called like this, **s2 = raising_the_bar(s1)** then **s2** is identical to **s1** except that every underscore (_) has been changed to a dash (-). Here is an example of the function being used:

```
>> raising_the_bar('1966_12_18--A Day in the Life')
ans =
1966-12-18--A Day in the Life
```

3. Write a function called **price_list** that takes no input arguments and returns one two-dimensional cell vector as an output argument. If it is called like this, **items = price_list** , then each row of **items** con- tains the name and the price of one item on a price list. The names and the prices are entered by the user. The function gives a general prompt and then repeatedly prompts for the name, which is entered without single quotes, and the price. The required form of the prompts is given in the example be- low. The user hits Enter after each entry. If after either of the prompts, the user hits Enter without typing anything, the function stops and returns **items**. HINT: The following format of the call of the function **input**, as shown in the help system, will be helpful: **STR = input(PROMPT,'s')**. Here is an example of the function in action:

```
>> items = price_list
Enter items and prices (empty item ends list)
Item name: Ink jet paper 500 sheets
Price of Ink jet paper 500 sheets: 11.49
Item name: Lexmark Black Ink Cartridge
Price of Lexmark Black Ink Cartridge: 19.99
Item name: Manila folders, pack of 100
Price of Manila folders, pack of 100: 6.99
Item name: Stapler
Price of Stapler: 13.99
Item name: Desk tape dispenser
Price of Desk tape dispenser: 3.99
Item name:
items =
'Ink jet paper 500 sheets'    [11.4900]
'Lexmark Black Ink Cartridge' [19.9900]
'Manila folders, pack of 100' [ 6.9900]
'Stapler'                     [13.9900]
'Desk tape dispenser'         [ 3.9900]
```