

Python – Basics 6 Assignments

1. Create a Python program on repl.it with the title “FirstLists”. This program should take five inputs from the user by asking his/her five favorite foods. The program should then put those into a list and print them. Then the program should change the first, third and fourth elements to be entirely upper case (should be done with item replacement by index, not a new list) and print the new list. Then, the program should remove the fourth element entirely and print the new list. Then it should insert a ‘lasagna’ in as the first item and print each element of the list individually by index.

Here is an example of the console when the program is finished (your foods will be different):

```
First Favorite Food:    pizza
Second Favorite Food:   steak
Third Favorite Food:    salad
Fourth Favorite Food:   ice cream
Fifth Favorite Food:    buritto

Original: ['pizza', 'steak', 'salad', 'ice cream', 'buritto']
Next: ['PIZZA', 'steak', 'SALAD', 'ICE CREAM', 'buritto']
Next: ['PIZZA', 'steak', 'SALAD', 'buritto']

Finalists:
lasagna
PIZZA
steak
SALAD
buritto
=> None
```

<Place a screen shot of your code and the output here>

2. Create a Python program on repl.it with the title “TheInterview”. This program should create a custom method called interview that prompts the user for answers to 5 questions about themselves. It should then use `.append()` to put those answers into a list and return it to the main to be saved. Then, unpack that list to remove each element and print it.

Here is an example of the console when the program is finished (questions may be different):

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```
Any pets?      1 Dog
Your age?      29
Average GPA?   3.63
Birth City?    La Mesa
Favorite Class? Band

Pets: 1 Dog
Age: 29
GPA: 3.63
Born: La Mesa
Class: Band
=> None
```

<Place a screen shot of your code and the output here>

3. Create a Python program on repl.it with the title “SortingHat” In this program, the program should take 3 float inputs (+ or -) from the user. It should then pass those numbers to a custom method called sortingHat which will take the three numbers and rearrange them to be in order from lowest to highest in a list. The list will be returned to the main, saved as a variable and printed.

Here is an example of the console when the program is finished (the numbers may be different):

```
Number 1:      -2
Number 2:       5
Number 3:       1
[-2.0, 1.0, 5.0]
=> None
```

<Place a screen shot of your code and the output here>

4. Create a Python program on repl.it with the title “ChangeofMind”. This program should start with 5 sports in a list (e.g. ‘baseball’, ‘basketball’, ‘football’, ‘hockey’, ‘soccer’). The program should then prompt you on whether or not you like all of those sports. If yes, the program should end. If not, it should prompt you on which one you want to remove and do it. It should then print the new list. Then, it should prompt you on whether or not you want to add any to the list. If you respond yes, it should take that sport and add it to the end and print the list again. Then, it should ask you your order of preference (first to last) of each and put them in order before it prints one last time.

No example on this one... I want to see what you come up with for the user interface!

<Place a screen shot of your code and the output here>

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