

EXERCISE SET 2 ** ANSWER SHEET **

18 pts.

Due Tuesday, February 22nd

User Input

1. Using the print and input instructions as shown in the lecture notes, give a series of instructions that displays "Welcome to My Program", and then displays "Enter freshman(1), sophomore(2), junior(3), or senior(4)" and prompts them to input a value. (5 pts.)

```
print 'Welcome to My Program'  
level = input('Enter 1 for freshman, 2 for sophomore, .....')
```

User Input Error Checking

2. Modify the instructions in problem 1 (below) so that it keeps prompting the user if a value other than 1-4 is entered. (5 pts.)

```
print 'Welcome to My Program'  
  
level = input('Enter freshman(1), .....')  
while (level < 1) and (level > 4)  
    print '* Invalid *'  
    level = input('Enter freshman(1), .....')
```

3. Suppose you were to write a program that asked for personal information including name, phone number, address, zip code and social security number. Explain what input errors a program would be able to check for just by the values entered (i.e., not by checking for existing phone numbers, etc. in a database) and how the input would be determined to be invalid. (5 pts.)

Name – can check if contains inappropriate characters such as digits, etc.
Phone number – can check if number of digits in phone number incorrect
Zip code – can check if contains the correct number of digits
Social security number – can check if it contains the correct number of digits

Display Output

4. For the following variables and their assigned values, (3 pts.)

```
salesYear = 2010  
profitsFor2010 = 200405
```

give a print statement that outputs to the user,

Total profits for year 2010 was 200405 dollars.

```
print 'Total profits for year', salesYear, 'was', profitsFor2010, 'dollars'
```