

COMS 3101-3 Programming Languages – Python  
Assignment 1 (10 points)  
Due: 2PM, Sept 13<sup>th</sup> 2013

1. (0 pt.) Install Python to your computer.
2. (5 pt.) Write a script to compute and print the prime number below N. Read N from console by prompting the user.
  - Performance is not important. You will be graded on correctness only.

```
$python ./primes.py
Compute primes up to? 15
2 3 5 11 13
```

3. (5 pt.) Write a program that computes the minimum number of bills and coins needed to make change for a person. For instance, if you need to give \$34.36 in change you would need one twenty, one ten, four ones, a quarter, a dime, and a penny. You don't have to compute change for bills greater than \$20 dollar bills or for fifty cents pieces. You can solve this problem by doing division, multiplication, subtraction, and converting floats to ints when appropriate. So, when you run the program it should look exactly like this:

```
$python ./change.py
Change amount? 34.36
The bills or the change should be:
1 twenties
1 tens
0 fives
4 ones
1 quarters
1 dimes
0 nickels
1 pennies
```

Hint: use 'raw\_input()' function to take input from console.

```
>>> x = raw_input("take input: ")
take input: this is input.
>>> print(x)
this is input.
```