## Python Homework 1

In the following multiple choice questions, please circle the correct output of Python code.

```
1. for num in range(1,5,2):
      print(num)
   (a) 123
                    (b) 135
                                    (c) 0 1 2 3
                                                                   (e) 3 2 1 0 -1
2. for num1 in range(0,3,1):
      for num2 in range(1,3,1):
        print(num2)
   (a) 123123 (b) 112233 (c) 121212 (d) 1212
                                                                   (e) 0 1 2 0 1 2
3. nums=[1,3,5,7,9]
   sum = 0
   for i in range(0, len(nums),1):
      sum = sum + nums[i]
    print(sum)
   (a) 15
                                                    (d) 30
                    (b) 20
                                                                   (e) 35
4. nums=[1,3,5,7,9]
   sum = 0
   for i in range(1, len(nums),3):
      sum = sum + nums[i]
    print(sum)
                                   (c) 12
   (a) 10
                                                    (d) 13
                    (b) 11
                                                                   (e) 14
5. nums = [4,3,6,2,4]
   for i in range(0, len(nums), 1):
      if (nums[i] > 3):
        nums[i] = 0
    print(nums)
   (a) [0,0,0,0,0] (b) [0,0,0,2,0] (c) [4,3,6,2,4] (d) [3,3,3,3,3] (e) [0,3,0,2,0]
6. nums1 = [1,2,3,4,5]
   nums2 = [5,4,3,2,1]
   sum = 0
   for i in range(0, len(nums1), 1):
        sum = sum + nums1[i] + nums2[i]
    print(sum)
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                    (b) 35
                                    (c) 45
                                                    (d) 18
                                                                    (e) 27
```

Coding question 1: Make a function is\_even(num) to check if any number is even or not.

Coding question 2: Make a function get\_lcm(num1, num2) to calculate least common factor of 2 numbers.

Coding question 3: Make a function count\_num\_even(nums) to count how many even numbers in a list.

Coding question 4: Make a function get\_sum(nums) to calculate sum of a list.