

## Big Data Analysis (Fall 2021)

### Quiz 1A

..... رقم التسجيل:

..... الاسم:

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**Instructions:** Time **12** min. Open book and notes exam. No electronics. Please answer all problems in the space provided and limit your answer to the space provided. No questions are allowed. There are two problems. Each problem has 2 points.

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**P1.** Complete the following python program such that the program accepts from the console an input list of integers, creates a second list that has letter 'E' or 'O' for each corresponding element of the first list ('E' for even integer and 'O' for odd integer), and prints the second list. Hint: use the `int()` built in function to convert the strings to integers.

**Example:** For input '2 4 11 7', the output should be ['E', 'E', 'O', 'O']

```
s = input()
l = s.split()
l2 = []

for t in l:
    if int(t) % 2 == 0:
        l2.append('E')
    else:
        l2.append('O')

print(l2)
```

**P2.** Using built in Python support of files and strings, complete the following Python program that accepts from the console an input file name and an output file name. Assuming that the input file contains text lines, the program should copy these lines to the output file after converting them to upper case.

**Example:** The following shows example input file contents and the corresponding output file contents.

Input file	Output file
Welcome to Python!	WELCOME TO PYTHON!
The most popular language.	THE MOST POPULAR LANGUAGE.

```
infile = input('Enter input file name: ')\noutfile = input('Enter output file name: ')
```

```
with open(infile) as f1, open(outfile, "a") as f2:\n    for line in f1:\n        f2.write(line.upper())
```

*<Good Luck>*