

Write a Python program that reads an input file `input.txt` with multiple lines that contain integer numbers, computes the average of all numbers divisible by 4, computes the average of all numbers divisible by 3 stores the results in a dictionary under the keys “divisible4” and “divisible3” respectively, and prints that dictionary to the console and to the output file `output.txt`

### INPUT FORMAT

Input file will consist of multiple lines. Each line will contain an arbitrary number of integers separated by a plus sign '+' (not spaces!). Example input:

`input.txt`

`12+45+49+50+1+-10`

`-15+56+-12+4+5+-10`

### OUTPUT FORMAT

1. Your program should print the following sentence to the console before outputting the results:

**Quiz: Dictionary**

2. Read all numbers from the input file, calculate the average of all numbers divisible by 4, calculate the average of all numbers divisible by 3, and store the result in a dictionary data structure.
3. You should print the dictionary both to the screen and to a file named `output.txt`
4. Example output for the given sample input:

```
{'divisible4': 15.0, 'divisible3': 7.5}
```

### SUBMISSION FORMAT

1. Teamwork is not allowed and only individual works whose submit score is 1 will be considered for evaluation!
2. Save your Python file as `quiz3.py`
3. Zip your file before submitting (not .rar, only .zip files are supported by the system). File hierarchy:
  - `<student id>.zip`
  - `quiz3.py`