

THE UNIVERSITY OF THE WEST INDIES
Department of Computing
COMP1126–Introduction to Computing I
Tutorial 5A

Question 1

Given the following list

```
std=[6200001,  
     ["Doe", "David", "John"],  
     [["COMP1126", [20, 10, 23, 54]], ["COMP1127", [3, 6, 11, 60]]]]
```

- a. Draw the memory structure for `std`.
- b. Give statements in python which will return id, last name and first name of `std`.
- c. Write a function `get_courses` which returns all the course codes that a given student does as a list.

```
>>>get_courses(std)  
["COMP1126", "COMP1127"]
```

- d. Write a function `get_grades` which given the student list above and a course code returns the corresponding grades summed up.

```
>>> get_grades(std, "COMP1127")  
80
```