INTRODUCTION TO PROGRAMMING WITH PYTHON

DIPLOMA IN BUSINESS INFORMATION TECHNOLOGY

DBIT 1 – GROUP B

LAB 03 – ADVANCED CONTROL STRUCTURES

Instructions:

1. This lab work should be done in groups of 2 or 3 based on the seating arrangement in the lab.

2. Listen to the Class Guidelines on how to submit your work.

3. **Always use the simplest solutions that you have learnt in class to work your solutions.**

Student Admission Number	Student Name
1.	
2.	
3.	

Question 1: Working with Lists– 10 Marks

A. From the list below, write a python program that will list names of students with special characters.

```
student_names = ['Amanda Talib', 'Susan St. James', 'Andréas Gor', 'Örjan Lewis']
```

Make your output look like below:

The student names with special characters are:

1. Name One
2. Name Two

Question 2: Grading System – 10 Marks

A. Given an array of integers **nums** and an integer **target**, return indices of the two numbers such that they add up to **target**. You may assume that each input would have exactly one solution, and you may not use the same element twice. You can return the answer in any order.

For example, given **nums** = [2, 7, 11, 15] and **target** = 13, the function should return [0, 2] because nums[0] + nums[2] = 2 + 11 = 13.