Faculty of Science, Engineering and Technology



**Introduction to Programming**

Distinction Task 8.3: Food Hunter

# Principles question and answer sheet.

**Write up to one page (maximum 500 words) addressing the following question:**

During this course we have covered some design principles for programming. These include:

* Coupling
* Cohesion
* Information hiding
* Modular design

Among others.

Compare and contrast how at least two (2) of the structured programming principles we have covered relate to theory and practice of object oriented programming. i.e what are the similarities and/or differences between structured programming and object oriented programming in relation to at least 2 design principles,

**Answer:**

* Coupling
* Structured programming follows top-down approach.
* Object oriented programming follows bottom-up approach.
* Cohesion
* Programs are divided into small self-contained functions in Structured Programming.
* Programs are divided into small entities called objects in Object Oriented Programming.
* Information hiding
* Structured programming lacks a data hiding method which makes it more vulnerable
* Data hiding methods exist in object-oriented programming which makes it more stable.
* Modular design
* Structured Programming has a lower reusability level.
* Object Oriented Programming provides more reusability.

End of Task.