

# (COMP6016- Malware Analysis)

## Coursework 1

### Introduction

This coursework 1 (a) is worth 30% of the module. It is due by Friday 23:59 of week 5. Files should be submitted via Moodle. Feedback will be given in week 7.

This is an individual coursework. Normal university rules on mitigating circumstances and academic conduct apply.

Assignment (What you have to do)

Write, in 64 bit x86 assembler, a simple archived system to help people to keep track of their computer information.

### Requirements

Your system must be able to store the following information about computer -

- Computer name
- IP address
- OS (can be any one of Linux, Windows, or Mac OSX)
- User ID of main user
- Date of purchase

Your system must be able to store the following information about people -

- Surname name
- First Name
- Dept (can be any one of Development, IT Support, Finance, or HR)
- User ID
- Email address

Your system must allow the following operations –

- Add/delete user
- Add/delete computer

You should make the following assumptions about the system -

- First names and surnames, all have a maximum size of 64 chars
- Computer names are unique, and are in the form of cXXXXXXXX where XXXXXXXX is any 7 digit number
- User IDs are unique, and are in the form of pXXXXXXXX where XXXXXXXX is any 7 digit number
- Email addresses are in the form @helpdesk.co.uk
- There is a maximum of 100 users and 500 computers on the system

## Submission

You should submit the following on Moodle –

- Code with annotation
- Test results

## Marking scheme

The specification for the assignment gives the you lots of freedom to choose which aspect to focus on. In particular, we aim to give comparative results similar marks.

Things to do:

- (a) Good code writing which include “comments” for better understanding of the reader (50%)
- (b) Consideration of the assumptions of the system (20%)
- (c) The system be able to record and delete information of the user and the computer (20%)
- (d) Good test results (10%)

## Learning Outcomes

1) Design and create assembly language programmes, with an awareness of how assembly programming differs from conventional programming.