

MODULE: WINDOWS PROGRAMMING - C30149 **ASSIGNMENT 1 (30%)**
FINAL DEADLINE: WEDNESDAY DECEMBER 10TH 2014

You are required to design a program to take up to 10 bookings for hotel rooms. A login form with username=csn and password=csn is required for security purposes. The time and date must be displayed on your main form. The user should be able to input a customer firstname, surname, date of birth, mobile number and number of nights. Each customer can choose between a standard, delux room or suite and payment method of cash or credit card. The program should calculate the cost of the customers stay at the hotel based on €50 per night for standard room with Delux costing €65 and Suite costing €100. A 15% discount should be given to those who pay cash. The user should be restricted using the KeyPress event to allow numbers only when entering No. of Nights Stay. Details of each customer member should be saved in memory. You must write a function to calculate the cost for each customer with discount where applicable. The program should allow the user save all data stored in memory to a text file named "bookings.dat".

CustID	Surname	Firstname	DOB	Mobile	No of Nights	Room	Payment	Cost
1	Murphy	Peter	02/04/1967	087-8111552	3	Standard	Visa	

Your program must include a menu bar and you should use graphics and colours schemes to enhance your software. Appropriate naming conventions should be used for each object/control.

You are required to submit evidence of the following for assessment

Program Documentation	<ul style="list-style-type: none"> Algorithms, flow charts, sketches of your software design List the variable names and data types required in memory A brief outline of the plan for your program (eg Input, Output, etc)
Application Interface	<ul style="list-style-type: none"> You must supply printouts of each screenshots indicating the correct working of each stage of the program An appropriate colour scheme and attractive design is required
Quality of Application	<ul style="list-style-type: none"> You must supply a printout of all source code Appropriate naming conventions should be used for each control and form Source code should be commented appropriately
Test, evaluation and report	<ul style="list-style-type: none"> Screenshots of every working stage of the program to be produced You must provide a brief report regarding testing and problems encountered with the software program

IMPORTANT: A copy of the folder containing all electronic files and all printouts must be given to your teacher in class on or before this deadline.

DECLARATION: I _____, confirm that this is my original work

Signed: _____ Date _____

Windows Programming - C30149

Individual Candidate Marking Scheme – Sheet 1 Programming Assignment 1 Weighting 30%

Candidate Name: _____

PPSN.: _____

School/Centre: Coláiste Stiofáin Naofa

Centre No: 711220

Assessment Criteria	Maximum Mark	Candidate Mark
<ul style="list-style-type: none"> • clearly documented program code <ul style="list-style-type: none"> ○ algorithm provided ○ input-process-output schema provided ○ memory requirements and data types detailed ○ flow chart or sketches 	<p>5</p> <p>5</p> <p>5</p> <p>5</p>	
<ul style="list-style-type: none"> • quality of application <ul style="list-style-type: none"> ○ source code correctly indented ○ prudent use of whitespace ○ source code commented appropriately ○ program works correctly ○ identifiers/controls appropriately named ○ working control structures ○ working loop structures ○ correct events used 	<p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p>	
<ul style="list-style-type: none"> • application interface <ul style="list-style-type: none"> ○ working screen layout ○ prudent use of text, fonts, colour, etc ○ fully functioning menu bar ○ appropriate use of grammar in dialog boxes ○ images/graphics used appropriately 	<p>5</p> <p>5</p> <p>5</p> <p>5</p> <p>5</p>	
<ul style="list-style-type: none"> • Test, Evaluate and Report <ul style="list-style-type: none"> ○ screen captures of each working stage ○ paragraph or more giving details of software testing ○ problems encountered documented 	<p>5</p> <p>5</p> <p>5</p>	
Subtotal	100	
WEIGHED TOTAL (= SUBTOTAL X 0.3)		