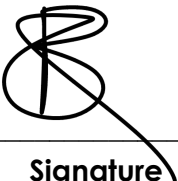




Faculty of Information Technology									
<p>I declare that I am familiar with, and will abide to the Examination rules of CTU</p>  <p>Signature</p>	<p>SUBJECT NAME: BEGINNER JAVA SUBJECT CODE: JD521</p>								
	<p>Formative Assessment 2</p> <p>Duration:</p> <p>Date: -</p> <p>Total Marks: 130</p> <p>Total pages: 5</p>					<p>Examiner: Mr. Isaac L Moderator: Mr. Thaveshan</p>			
	<p>Student number 6854</p>								
	<p>Surname: de Bruyn</p>					<p>Initials: BJ</p>		<p>/</p>	

Instructions:

- Recall to keep a copy of all submitted assignments.
- All work must be typed using Microsoft Word and convert the word document to PDF before uploading to COLCampus.
- Kindly note that you will be evaluated on your writing skills in all your assignments.
- Negative marking will be applied if you are found guilty of plagiarism, poor writing skills or if you have applied incorrect or insufficient referencing.
- Each assignment must include a cover page, table of contents and full bibliography, based on Harvard referencing style.
- Students are not allowed to offer their work for sale or to purchase the work of other students. This includes the use of professional assignment writers. If this should happen, CTU training Solutions reserves the right not to accept future submissions from a student.

Spelling, style, fonts, font size, line spacing

- Please copy the questions onto your answer sheet (single space the questions), and make sure to use numbers to indicate the answers to each question.
- Always use a spell checker before you submit assignments! We reserve the right to deduct point for each obvious misspelling.
- Always double-space your answers.
- Please use Arial (or Calibri (Body)), 12 point as the font for your assignments. Certain fonts have been known not to come across in the PDF files.
- Use only black or blue font face colors. Do not use red!

Question 1

70 MARKS

Design a program using a console application in java NetBeans, named **studentMarksReport** that will print the final result obtained by a student with the weighting of each module. Make use of a class named Student that contains variables to store the student number, test result, assignment result and exam. Create a constructor that accepts the student number, test result, assignment result and the exam result as parameters and create get methods for the variables (Use JOptionPane to get variable from the user). Create a subclass called **Student_Report** that extends the Student class. The **Student_Report** overrides all getter methods and the constructor from Students. Write code for the **print_report** method which calculates each assessment weighting as follows:

Question 2

60 MARKS

Create a program using a console application name "DragonKiller". The program should ask the user to enter his/her name and surname. Create a method name **RemoveSpace()** to remove space between the name and the surname entered by the user. Count the number of characters within the newly created string (nameSurname). The total number of characters (Name and Surname) should be used as the size of your arrayDragon (type integer). Populate your arrayDragon with a series of odd random numbers between 10 and 50.

Display all arrayDragon elements and they are corresponding indexes before executing the insertionSort method. Allow the user to enter a value from the arrayDragon element to search for and be removed (Killed).

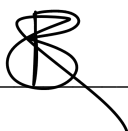
- Loop through the array until you find the value (Use the binarySearch to locate the value with in your array) and kill that value from the arrayDragon. By replacing the value findDragon with a Zero (0)
- Print out arrayDragon with the killed element.

Completed Declaration of Authenticity

I Brandon Jason de Bruyn hereby
(FULL NAME)

declare that the contents of this assignment JD521 FA2 is entirely my own work except for the following documents: (List the documents and page numbers of work in this portfolio that were generated in a group)

Activity	Date

Signature:  Date: 22/02/2021