

Faculty of Information Technology



**CTU** training solutions

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<p>I declare that I am familiar with, and will abide to the Examination rules of CTU</p>     <hr/> <p><b>Signature</b></p>	<p align="center"><b>SUBJECT NAME: ADVANCED JAVA</b></p> <p align="center"><b>SUBJECT CODE: JD522</b></p>							
	<p><b>Summative Assessment</b></p> <p><b>Duration:</b></p> <p><b>Date: -</b></p> <p><b>Total Marks: 75</b></p> <p><b>Total pages: 7</b></p>				<p><b>Examiner:</b> Mr. Isaac L</p> <p><b>Moderator:</b> Ms. Lerato P</p>			
	<p><b>Student number</b></p>							
	<p><b>Surname:</b></p>				<p><b>Initials:</b></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

75 MARKS

[75 Marks]

**Scenario**

You are software developer working for Volkswagen tasked you to create a desktop application using Netbeans

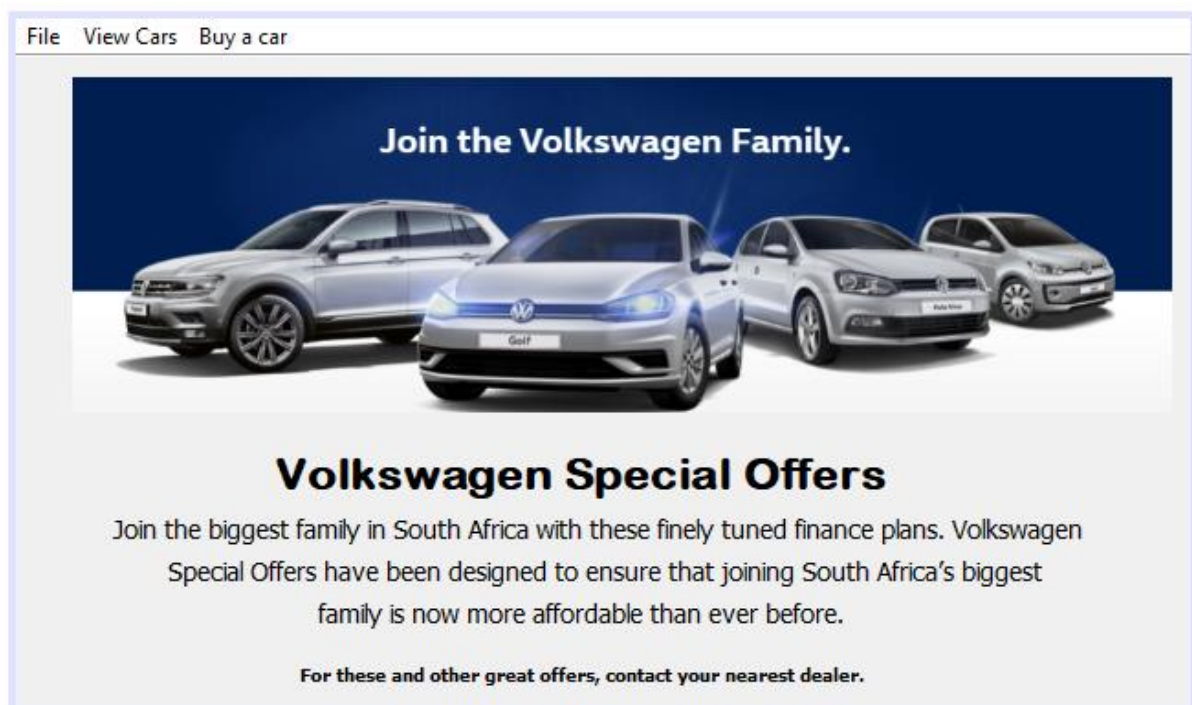
**The Volkswagen desktop app has the following requirements:**

A **home page**(Jframe) with a brief welcome paragraph

A **page to view the different cars** including basic information about the car's costs such as the monthly instalments

A page which allows the user to **apply for finance** should he/she wish to purchase the car. This page should also allow the user to browse for attachments and populate the textbox with the attachment name. If the user had no licence the program should display an error message and go back to the home page. If the application for finance was a success, the program should write the user's details to a text file saved as the user's name and surname

**\*\*A video of how the application works will be provided\*\***

**1. Home Page**

## 2. View Cars



Please choose your preferred car

Polo



Instalment	R 3 404
Selling Price	R 224 300
Interest Rate	7.59%
Deposit	0%
Balloon Payment	R 118 879
Instalments	48
Total Cost of Credit	R 282 249

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## 3.

### Personal Information

First Name	<input type="text"/>	Home address	<input type="text"/>
Surname	<input type="text"/>	Work address	<input type="text"/>
Cell no	<input type="text"/>	Gross Pay	<input type="text"/>
ID no	<input type="text"/>	Net Pay	<input type="text"/>
Gender	Male <input type="text"/>	Valid license	<input type="radio"/> Yes <input type="radio"/> No
Occupation	<input type="text"/>	Vehicle	Polo Vivo <input type="text"/>

### Next of kin

First Name	<input type="text"/>
Surname	<input type="text"/>
Cell no	<input type="text"/>
Relationship	<input type="text"/>

### Attachments

ID	<input type="text"/>	Browse
Latest payslip	<input type="text"/>	Browse
License	<input type="text"/>	Browse

Submit Application

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### Rubric

<b><u>Content:</u></b>	<b>Full Marks:</b>	<b>Attempted but not correct:</b>	<b>Not attempted :</b>
1. Welcome page created	5	3	0
2. View cars created and working as shown	20	7	0
3. Finance page working as shown	20	15	0
4. All buttons work and navigate to relevant pages	5	3	0
5. Recording of the application	10		0
7. License validation added	10	5	0
6. A pdf document with all the code and interface screenshots	5	0	0
Total Marks:	<b>75</b>		

### Completed Declaration of Authenticity

I \_\_\_\_\_ hereby  
(FULL NAME)

declare that the contents of this assignment \_\_\_\_\_ 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: \_\_\_\_\_