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| **Subject Information** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Course** | | | | UEE60411 Advanced Diploma of Computer Systems Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Unit[s] of Competency** (If cluster list all units in cluster) | | | | UEENEED103A Evaluate and modify object oriented code programs | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NA | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Assessment Information for Student** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Name of task** | | | | **AT3 Documentation of code, testing and debugging for AT1 and AT2** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Type of task** | | | | | Assignment | | | | | | | **Task Number** | | | | | | | | | 3 | | | | of | | | | 4 | | |
| **Where you will work on your task** | | | | | The Gordon, in class | | | | | |  | | | | | | | | | | | | | | | | | | | | |
| **Time available to complete this assessment** | | | | | 20 Hours | | | **Due date** | | | | | | | 26/06/2020 | | | | | | | | | | | | | | | | |
| **What you are required  to prepare, do or make** | | | | Documentation of the process of completing assessment tasks AT1 and AT2. This will include fully commented python source code, testing and debugging procedures. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Specific Assessment requirements (if any)** | | | | Evaluating and modifying programs written in object oriented code, programming language must include at least the following features:   * graphical User Interfaces * applets and graphics * Exceptions | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **What skills and knowledge you need to demonstrate** | | | | * Developing test procedures * Testing and documenting modified OO code * Problem solving techniques – (debugging and rectifying faults in code) * WHS, risk and workplace procedures for coding * Workplace documentation – (documented code changes) * Identifying bugs in code | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Your assessor will provide these resources** | | | | Python app source code to be modified, IDLE, computer with Python installed and internet | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **You (the student) will need to provide these resources** | | | | Nil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Before you start this task** | | | | Using a blue or black pen please complete the *Student Information* section on the Case study/Assignment Coversheet at the back of this assessment. Please write your full name (both first and last name), student identification number, date and sign the sheet.  Note: If questions are on Gordon online, your login is deemed as understanding and acceptance of the student rights and responsibilities and you do not need to complete the form. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **To submit this task** | | | | Your assessment must be submitted with the Case Study/Assignment Coversheet on the back page of this assessment. You must submit this task to your assessor via Gordon Online | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **AT3 Documentation of code, testing and debugging for AT1 and AT2** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| For this assessment task you are required to:-  Submit documentation of the process of completing assessment tasks AT1 and AT2. This will include fully commented python source code and one paragraph addressing each point below for each task AT1 and AT2.  **AT1 Personal interests data search app documentation**   1. Provide a summary of the job specification – K9, K10    1. Download a bugged python code and modify the code to remove any bugs.    2. Modify the window title to include name and student ID.    3. Modify the code to use a .gif image of my choice.    4. Modify the exception code to produce my own output if no key pair found in the dictionary.    5. Added 3 additional key pair values to the dictionary. 2. What workplace procedures (SOP) did you follow when preparing for and undertaking the coding – 1.2, K7, K10    1. I read the task carefully and took notes before looking at the bugged code and noting what needed to be changed. 3. Describe the essential parts of the computer coding you modified –    1. Modified exit button from the original function of *‘onClickSubmitButton’* to *‘onClickExitButton’* so the exit button functions as expected.    2. Modified original gif image location in the code to use a gif image of my choice. 4. How did you plan your time to complete the scope of the work – 1.4    1. I used my class time effectively by asking for help when necessary.    2. I documented my changes to every line of code as I made them, so I didn’t have to backtrack and remember what was changed. 5. What bugs did you identify as you modified the code (unplanned events) and how did you debug the code – K3,P7, 2.5, 3.2    1. The original image in the code would cause the tkinter window to not display as I did not have the associated image in my path folder. I inserted my own image into the path and modified the code to use my image based on the relative path.    2. I found that the exit button in the program would not exit the program, it would instead act as an additional submit button. I modified the code so that when pressing the exit button. It called on the correct program. 6. How did you test the modified code to ensure it met the job specification – P5, P11, 3.1,    1. Knowing what the code was expected to do, I entered the correct text into the textbox to ensure it would work as expected. After verifying the correct functions, I then entered incorrect text purposely so I could test the exception handling. 7. Upload to Gordon online your fully commented python source code , with your own comments describing each modification you made – K9, P11, 3.3    1. Included in PythonAT1 code.   **AT2 Email lookup app documentation**   1. Provide a summary of the job specification – K9, K10    1. Use my PythonAT1 code and modify it according to the below requests.    2. Modify the window title to include name and email address.    3. Modify the code to use a .gif image of my choice.    4. Modify the code so that when the submit button is clicked, it checks the text entered by the user is a valid email address by searching for an @ symbol.    5. Added 3 additional key pair values of email addresses and names to the dictionary. 2. What workplace procedures (SOP) did you follow when preparing for and undertaking the coding – 1.2 K7, K10    1. I read the task carefully and took notes before looking at the bugged code and noting what needed to be changed. 3. Describe the essential parts of the computer coding you modified –    1. Modifications:       1. Modified window title to include email address.       2. Modified dictionary to have names and email addresses.    2. Additions:       1. Added an *‘if’, ‘elif’* and an *‘else’* statement to search the text entered by the user for an *“@”* or *“.”*.       2. Added a message stating that the text entered is not in the correct email address format if an “@” or *“.”* is not found.       3. Added a message stating that the email address is in the correct format but not in the dictionary if true. 4. How did you plan your time to complete the scope of the work – 1.4    1. I used my class time effectively by asking for help when necessary.    2. I documented my changes to every line of code as I made them, so I did not have to backtrack and remember what was changed. 5. What bugs did you identify as you modified the code (unplanned events ) and how did you debug the code – K3,P7, 2.5, 3.2    1. I did not encounter any bugs from the existing PythonAT1 code. Whilst modifying the code to search for an @ symbol from the user entered text, I did encounter a bug that I could not overcome. The function would not work while the *‘try’* and *‘except’* rules were in the code, so I modified the function to become an *‘if’*, *‘elif’*, and *‘else’* statement which removed the bug and allowed the code to continue. 6. How did you test the modified code to ensure it met the job specification – P5, P11, 3.1,    1. I knew what the code was wanting to do so in the text box, I entered many combinations of correct and incorrect email addresses to ensure the correct output was displayed in regard to what was entered. 7. Upload to Gordon online your fully commented python source code , with your own comments describing each modification you made – K9, P11, 3.3    1. Included in PythonAT2 code. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Case Study/ Assignment Coversheet**  **Student Information** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Student’s Name** | | Jack Robins | | | | | | | **Student ID No.** | | | | | 1 | | 3 | | | | 2 | | 1 | 5 | | | | 3 | 9 | | 1 |
| **Student Rights** | | If you have any questions about the assessment outcome you should firstly speak to your trainer. If this conversation does not resolve your concern, you can appeal the decision within ten working days of the date below by sending an email to **qualityassurance@gordontafe.edu.au** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Student Declaration** | | I certify that the work completed and submitted for this assessment task is my own work and that where other people’s work or contribution is part of this assessment, it has been clearly identified in the assessment and that person’s role or source of the information has been acknowledged. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Student’s Signature** | | Jack Robins | | | | | | | **Date** | | | | | 24/06/2021 | | | | | | | | | | | | | | | | |
| **Case Study/Assignment checklist (Assessor Use Only)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Performance and Knowledge to be addressed in this task** | | | | | | | | | | | | | | | | | | | **Satisfactory** | | | | | | | | | | | | |
| **Yes** | | | | | | | **No** | | | | | |
| 1. | Developing test procedures | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | |
| 2. | Testing and documenting modified OO code | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | |
| 3. | Problem solving techniques – (debugging and rectifying faults in code) | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | |
| 4. | WHS, risk and workplace procedures for coding | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | |
| 5. | Workplace documentation – (documented code changes) | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | |
| 6. | Identifying bugs in code | | | | | | | | | | | | | | | | |  | | | | | | | |  | | | | | |
| **Assessment Outcome (Assessor use only)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Attempt Number** | | | First submission | | | | Second submission | | | | | | Late submission | | | | | | | | | | | | | | | | | | |
| **Reasonable adjustment applied** | | | Not required   Yes (briefly describe) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Outcome** | | | Satisfactory | | | | Unsatisfactory | | | | | | | | | | | | | | | | | | | | | | | | |
| **Feedback** | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Assessor’s Name** | | | S.Gale | | | **Signature** | | | |  | | | | | | | **Date** | | | | | | |  | | | | | | | |